

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representation of
The original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

FIG. 1A

1 agggagagggc agtgaccatg aaggctgtgc tgcttgccct gttgatggca
 51 ggcttggccc tgcagccagg cactgccctg ctgtgctact cctgcaaagc
 101 ccaggtagagc aacgaggact gcctgcaggt ggagaactgc acccagctgg
 151 gggagcagtg ctggaccgcg cgcacccgcg cagttggcct cctgaccgtc
 201 atcagcaaag gctgcagctt gaactgcgtg gatgactcac aggactacta
 251 cgtgggcaag aagaacatca cgtgctgtga caccgacttg tgcaacgcc
 301 gcggggccca tgcctgcag ccggctgccc ccacccctgc gctgctccct
 351 gcaactcggcc tgctgctctg gggacccggc cagctatagg ctctgggggg
 401 ccccgctgca gccacactg ggtgtggtgc ccagggcctt tgtgccactc
 451 ctcacagaac ctggcccagt gggagcctgt cctggttcct gaggcacatc
 501 ctaacgcaag tttgaccatg tatgtttgca ccccttttcc cnaaccctg
 551 accttcccat gggccttttc caggattccn accnggcaga tcagtitttag
 601 tganacanat ccgcntgcag atggcccctc caaccntttt tggtgntggt
 651 tccatggccc agcatttttc acccttaacc ctgtgttcag gcacttnttc
 701 ccccaggaag ccttccctgc ccacccatt tatgaattga gccaggtttg
 751 gtccgtggtg tccccgcac ccagcagggg acaggcaatc aggagggccc
 801 agtaaggct gagatgaagt ggactgagta gaactggagg acaagagttg
 851 acgtgagttc ctgggagttt ccagagatgg ggcctggagg cctggaggaa
 901 ggggccaggc ctcacatttg tgggntccc gaatggcagc ctgagcacag
 951 cgtaggccct taataaacac ctgttgata agccaaaaaa aaaaaaa

FIG. 1B

MKAVLLALLMAGLALQPGTALLCYSCKAQVSNEDCLQV
 ENCTQLGEQCWTARIRAVGLLTVISKGCSLNCVDDS
 QDYVVGKKNITCCDIDLNASGAHALQPAAAILALLPAL
 GLLWGPQL

FIG. 2

1 ATGAAGACAGTTTTTTTTATCCTGCTGGCCACCTACTTAGCCCTGCATCCAGGTGCTGCT.
 -----+-----+-----+-----+-----+-----+ 60
 TACTTCTGTCAAAAAAATAGGACGACCGGTGGATGAATCGGGACGTAGGTCCACGACGA
 M K T V F F I L L A T Y L A L H P G A A
 61 CTGCAGTGCTATTCATGCACAGCACAGATGAACAACAGAGACTGTCTGAATGTACAGAAC
 -----+-----+-----+-----+-----+-----+ 120
 GACGTCACGATAAGTACGTGTCGTGCTACTTGTGTCTCTGACAGACTTACATGTCTTG
 L Q C Y S C T A Q M N N R D C L N V Q N
 121 TGCAGCCTGGACCAGCACAGTTGCTTTACATCGCGCATCCGGGCCATTGGACTCGTGACA
 -----+-----+-----+-----+-----+-----+ 180
 ACGTCGGACCTGGTCGTGTCAACGAAATGTAGCGCGTAGGCCCGGTAACCTGAGCACTGT
 C S L D Q H S C F T S R I R A I G L V T
 181 GTTATCAGTAAGGGCTGCAGCTCACAGTGTGAGGATGACTCGGAGAACTACTATTTGGGC
 -----+-----+-----+-----+-----+-----+ 240
 CAATAGTCATTCCCGACGTCGAGTGTCACTCCTACTGAGCCTCTTGATGATAAACCCG
 V I S K ~~G~~ C S S Q C E D D S E N Y Y L G
 241 AAGAAGAACATCACGTGCTGCTACTCTGACCTGTGCAATGTCAACGGGGCCACACCCTG
 -----+-----+-----+-----+-----+-----+ 300
 TTCTTCTGTAGTGCACGACGATGAGACTGGACACGTTACAGTTGCCCGGGTGTGGGAC
 K K N I T C C Y S D L C N V N G A H T L
 301 AAGCCACCCACCACCCTGGGGCTGCTGACCGTGCTCTGCAGCCTGTTGCTGTGGGGCTCC
 -----+-----+-----+-----+-----+-----+ 360
 TTCGGTGGGTGGTGGGACCCGACGACTGGCACGAGACGTCGGACAACGACACCCCGAGG
 K P P T T L G L L T V L C S L L L W G S
 361 AGCCGTCTGTAGGCTCTGGGAGAGCCTACCATAGCCCGATTGTGAAGGGATGAGCTGCAC
 -----+-----+-----+-----+-----+-----+ 420
 TCGGCAGACATCCGAGACCCTCTCGGATGGTATCGGGCTAACACTTCCCTACTCGACGTG
 S R L *
 421 TCCACCCACCCACACAGG
 -----+-----+-----+-----+-----+ 441
 AGGTGGGGTGGGGTGTGTCC

FIG. 3

1 M K I F L P V L L A A L L G V E R A S S hSCA-2
1 M K A V L L A L L M A G L A L Q P G T A hPSCA
1 M K T V L F L L L A T Y L A L H P G A A mPSCA

21 L M C F S C L N Q K S N* L Y C L K P T I
21 L L C Y S C K A Q V S N* E D C L Q V E N*
21 L Q C Y S C T A Q M N N* R D C L N V Q N*

41 C S D Q D N Y C V T V S A S A G I G N L
41 C T Q L G E Q C W T A R I R A V G L L T
41 C S L D Q H S C F T S R I R A I G L V T

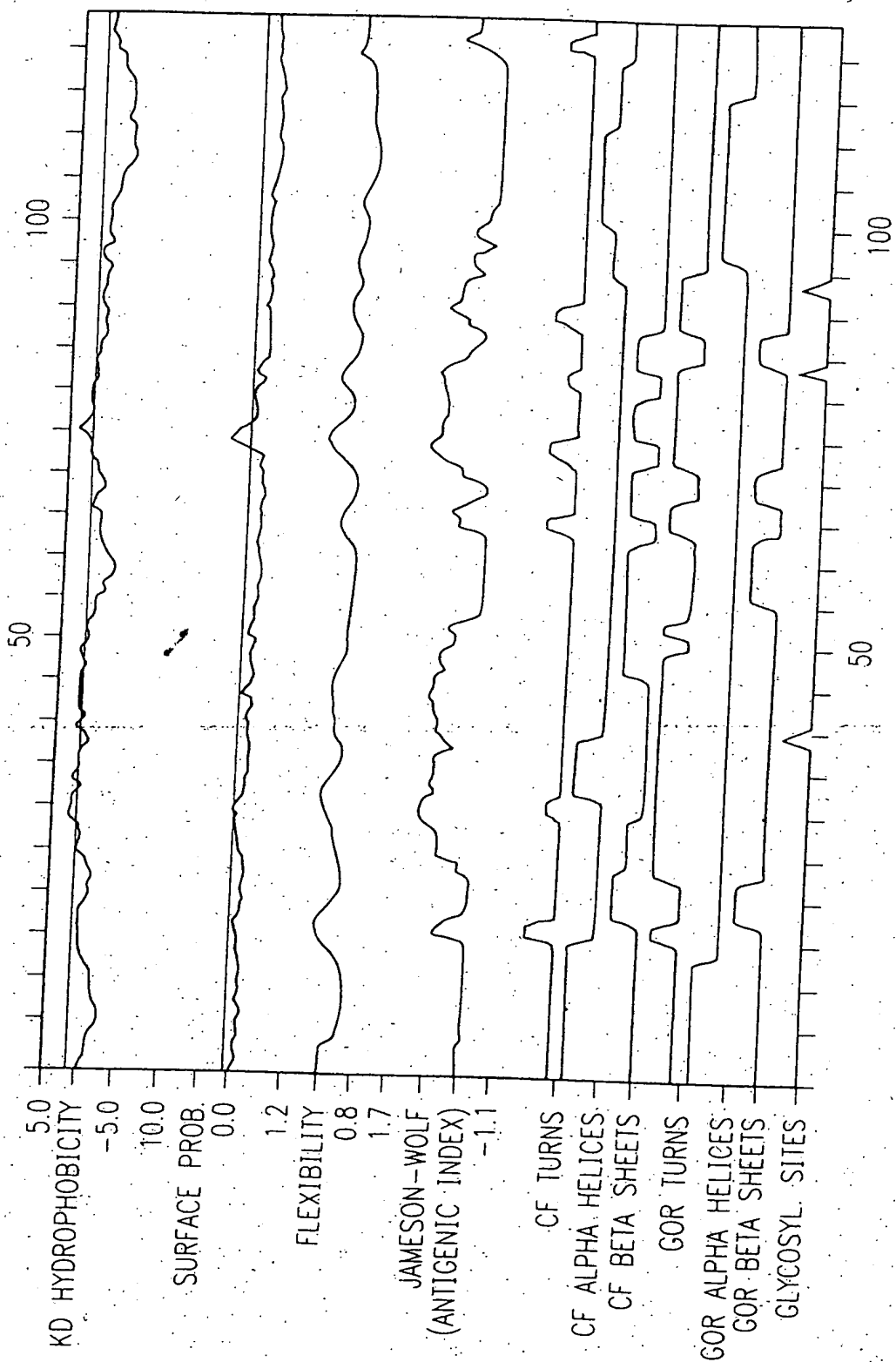
61 V T F G H S L S K T C S P A C P I P E G
61 V - - - - I S K G C S L N C V D D S Q
61 V - - - - I S K G C S S Q C E D D S E

81 V N V G V A S M G I S C C Q S F L C N* F
76 D Y Y V G K K - N* I T C C D T D L C N* A
76 N Y Y L G K K - N* I T C C Y S D L C N* V

101 S A A D G G L R A S V T L L G A G L L L
95 S G A H A L Q P A A A I L A L L P A L G
95 N G A H T L K P P T T L G L L T V L C S

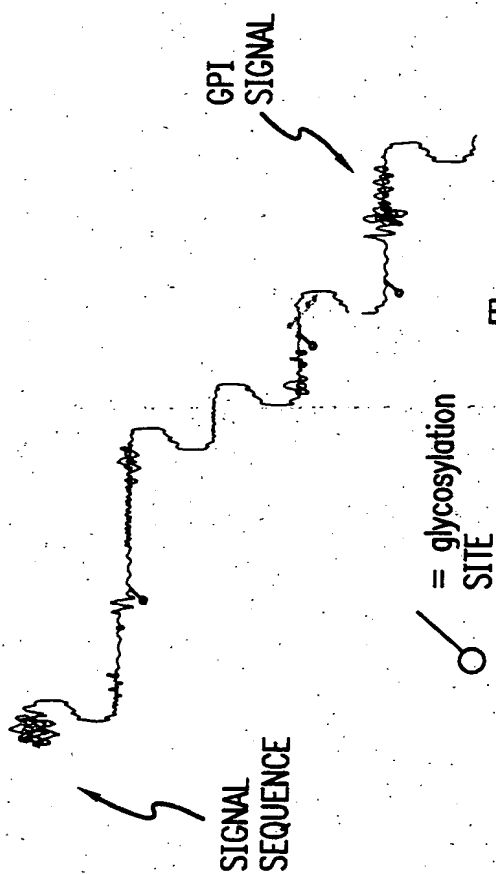
121 S L L P A L L R F G P
115 L L L W G P G Q L - -
115 L L L W G S S R L - -

FIG. 4



HYDROPHOBICITY PLOT OF PSCA

FIG. 5



LAPC9
S. INTESTINE
TESTIS
KIDNEY
KIDNEY
BLADDER CARCINOMA
BLADDER
BLADDER
PROSTATE
PROSTATE
PROSTATE

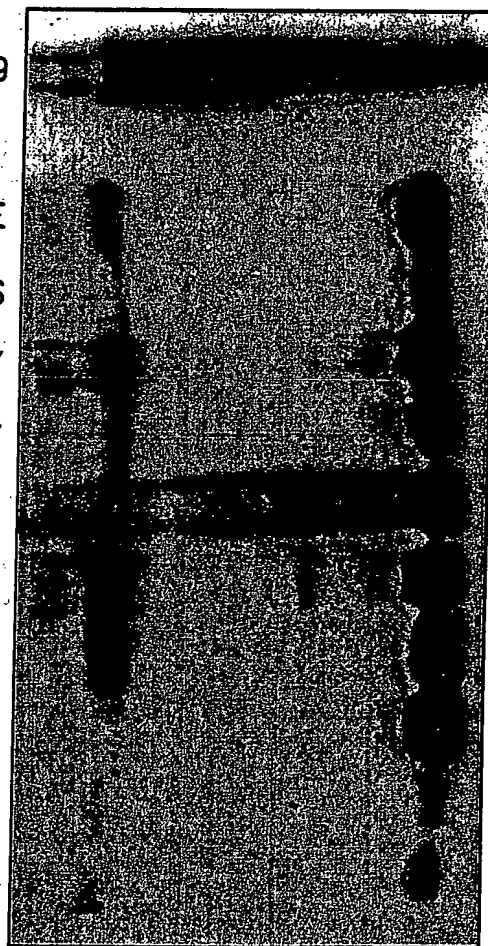


FIG. 6

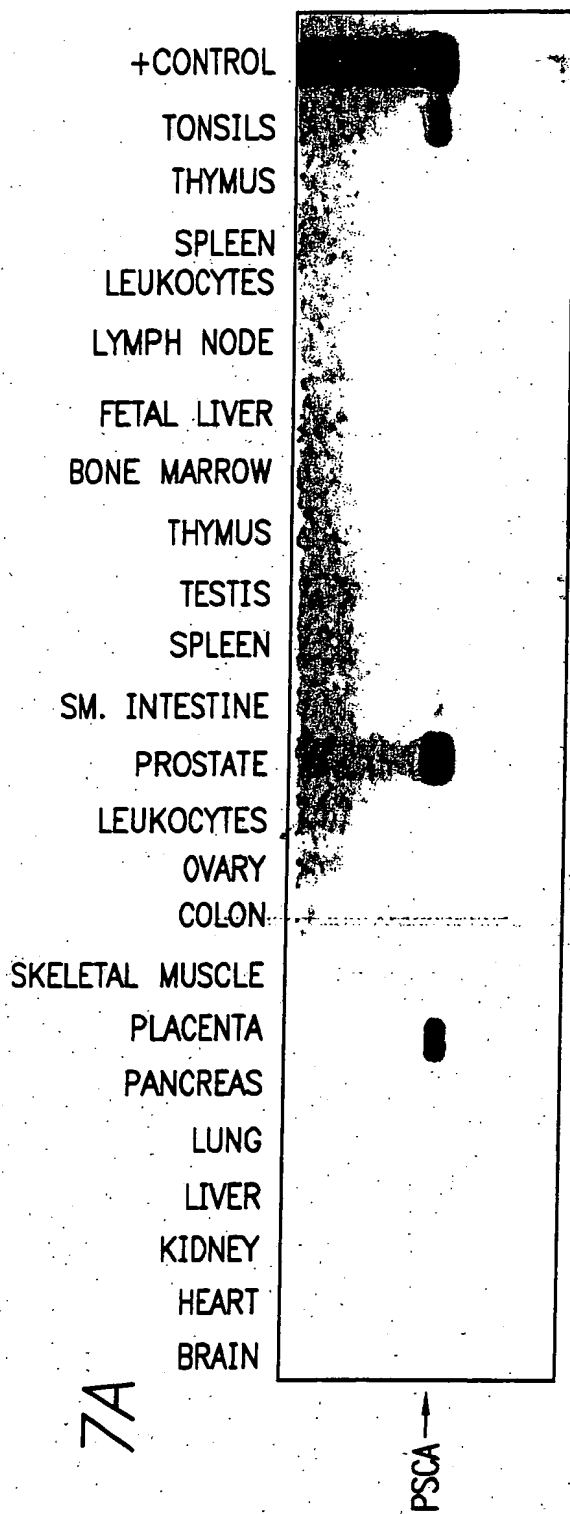


FIG. 7A

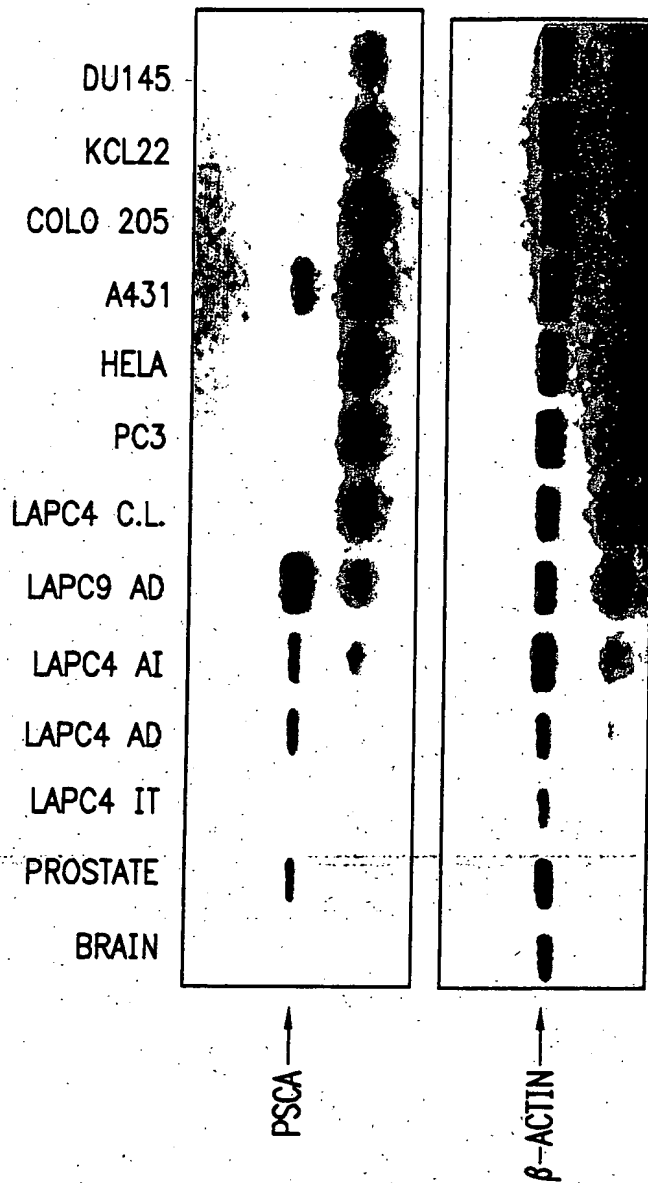


FIG. 7B

FIG. 8A

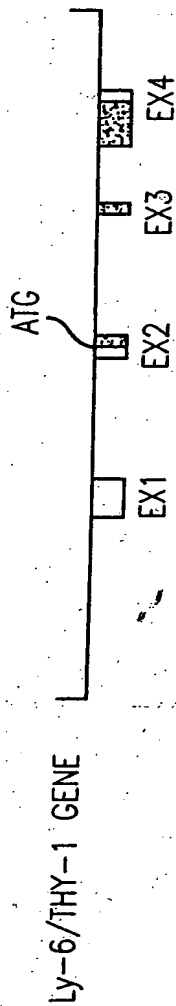


FIG. 8B

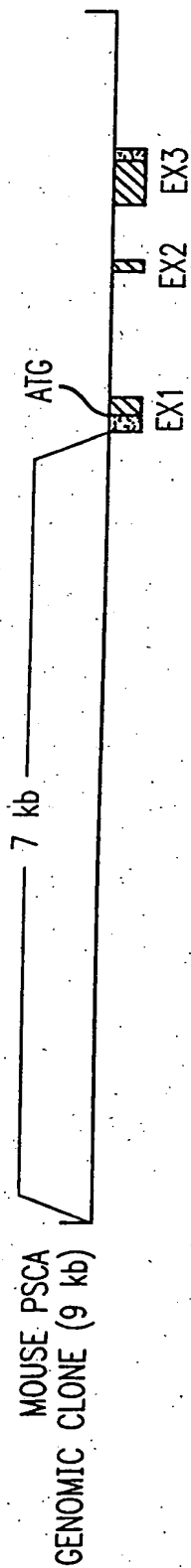
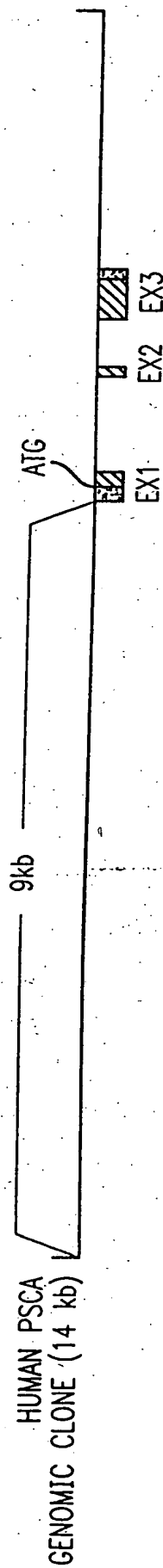


FIG. 8C



LAPC-4 AI

LAPC-4 AD

BENIGN

PSA →



LAPC-4 AI

LAPC-4 AD

BENIGN

PSA →

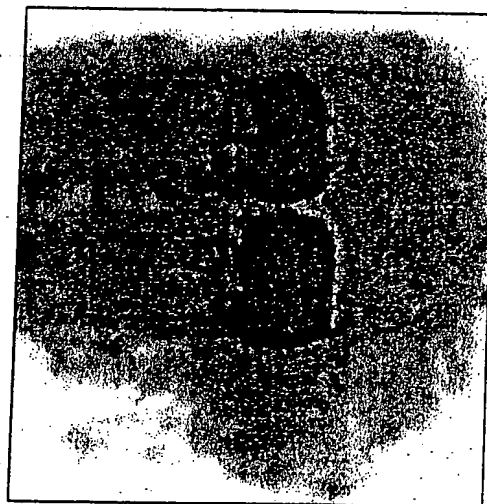


FIG. 9A

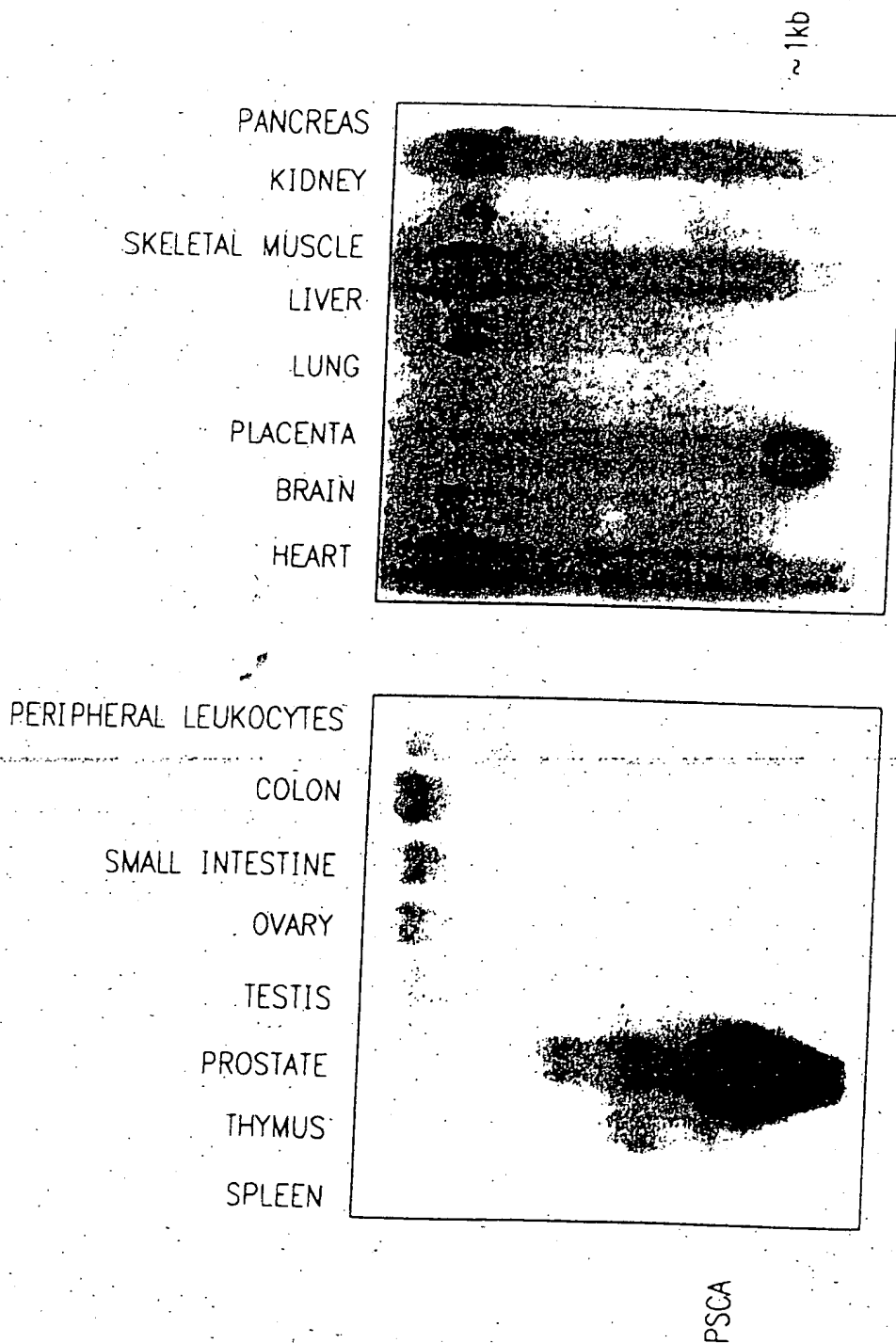
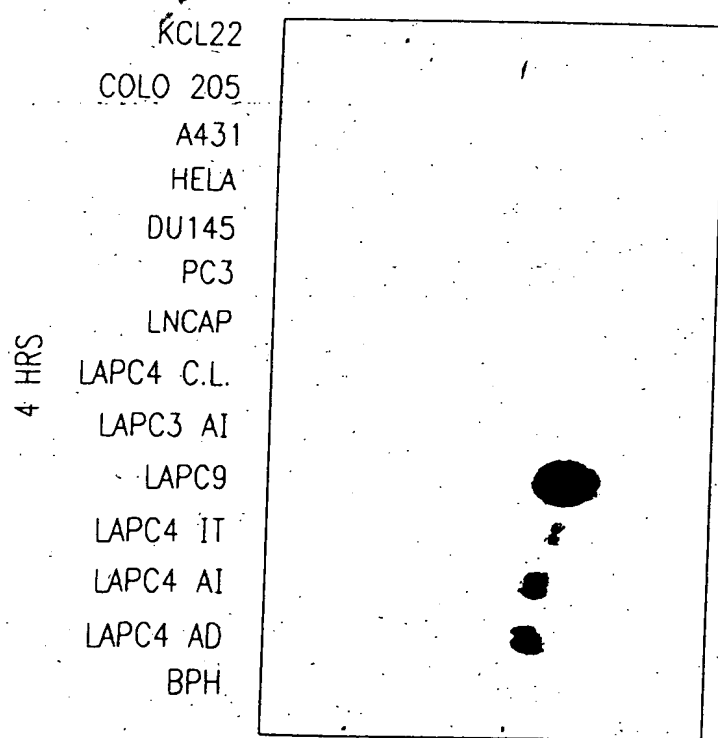
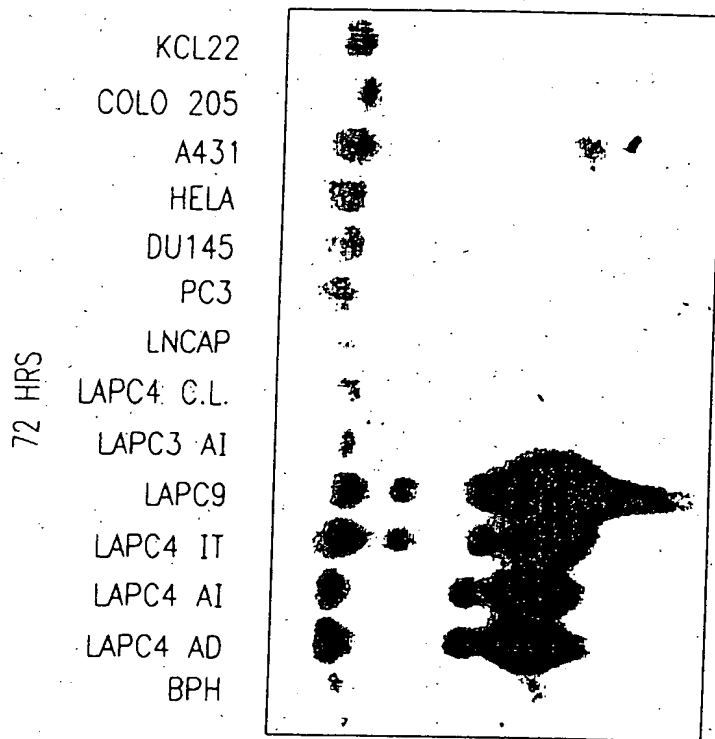


FIG. 9B

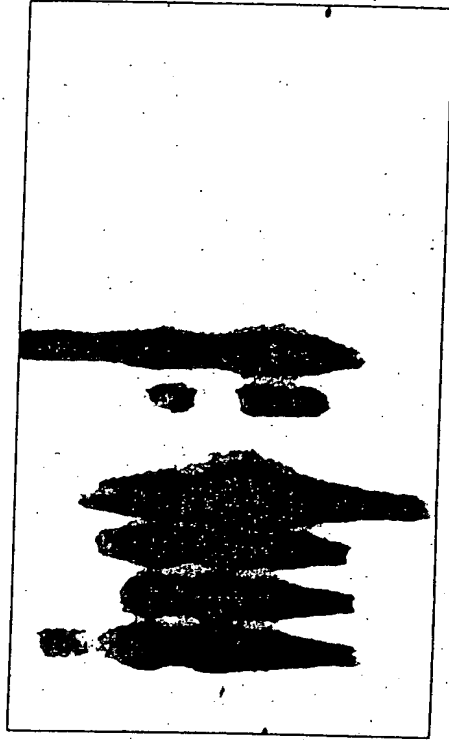


PSCA

FIG. 10A

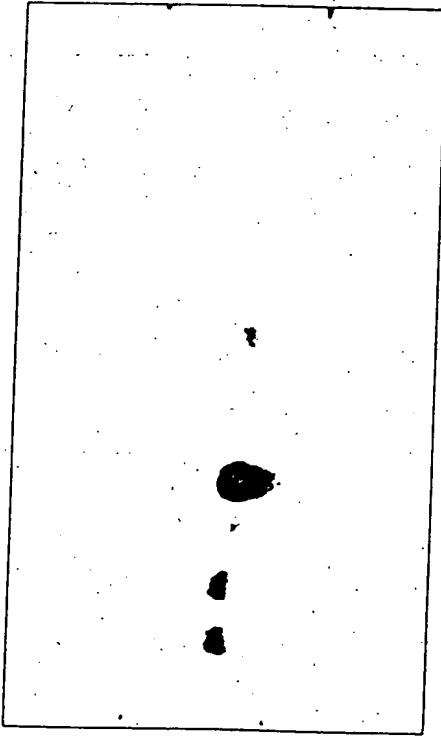
72 HRS

KCL22
COLO 205
A431
HELA
DU145
PC3
LNCAP
LAPC4 C.L.
LAPC3 AI
LAPC9
LAPC4 IT
LAPC4 AI
LAPC4 AD
BPH



4 HRS

KCL22
COLO 205
A431
HELA
DU145
PC3
LNCAP
LAPC4 C.L.
LAPC3 AI
LAPC9
LAPC4 IT
LAPC4 AI
LAPC4 AD
BPH

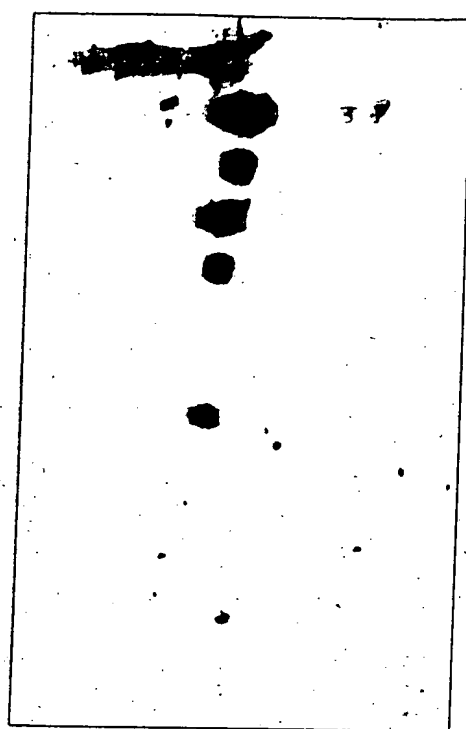


.PSM

FIG. 10B

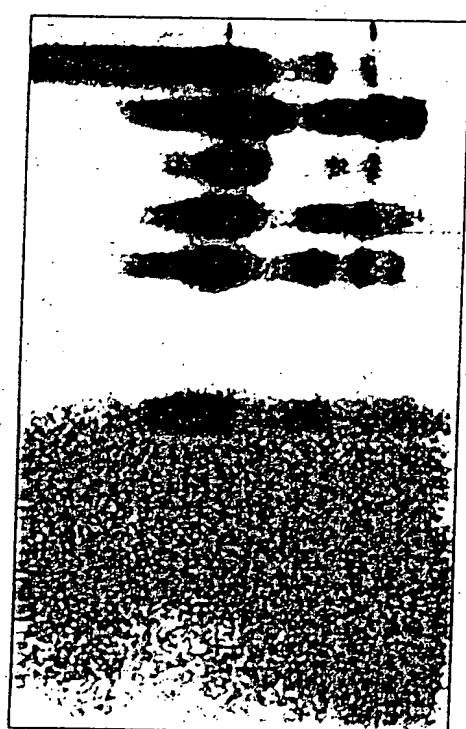
PSA

4 HRS



BPH
LAPC4 AD
LAPC4 AI
LAPC4 IT
LAPC9
LAPC3 AI
LAPC4 C.L.
LNCAP
PC3
DU145
HELA
A431
COLO 205
KCL22

72 HRS



BPH
LAPC4 AD
LAPC4 AI
LAPC4 IT
LAPC9
LAPC3 AI
LAPC4 C.L.
LNCAP
PC3
DU145
HELA
A431
COLO 205
KCL22

ETBR

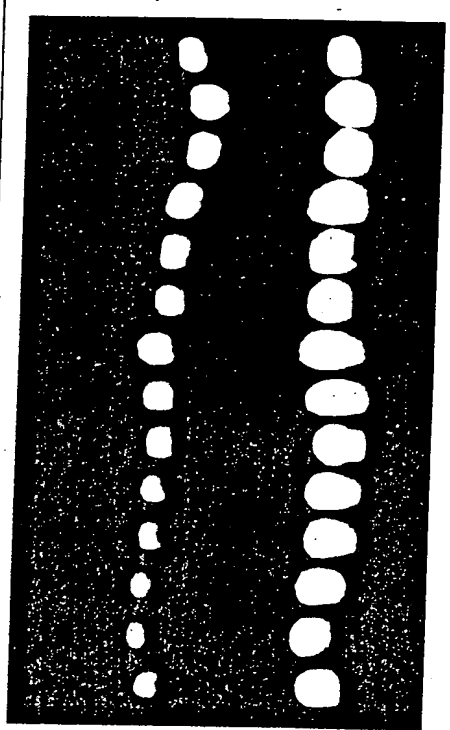


FIG. 10C

FIG. 11A



FIG. 11B

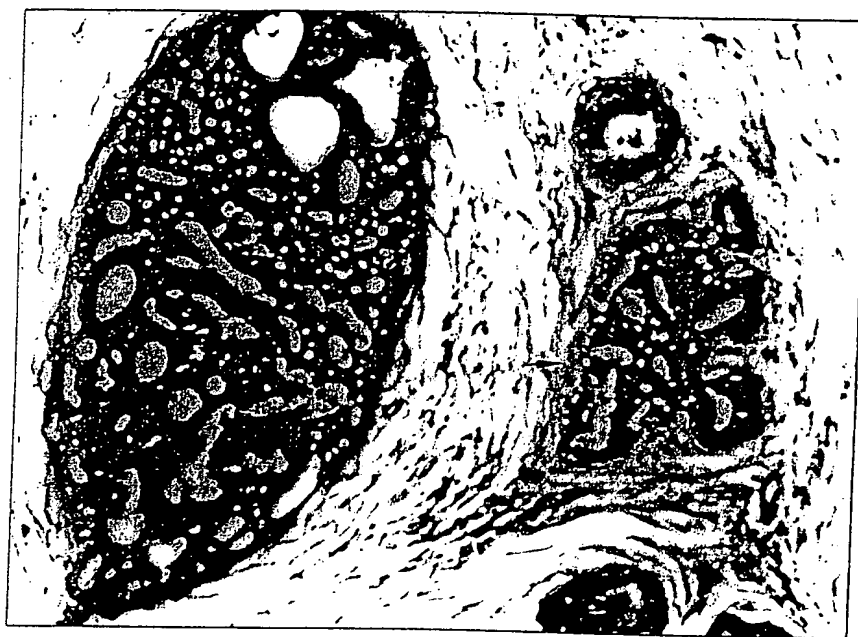
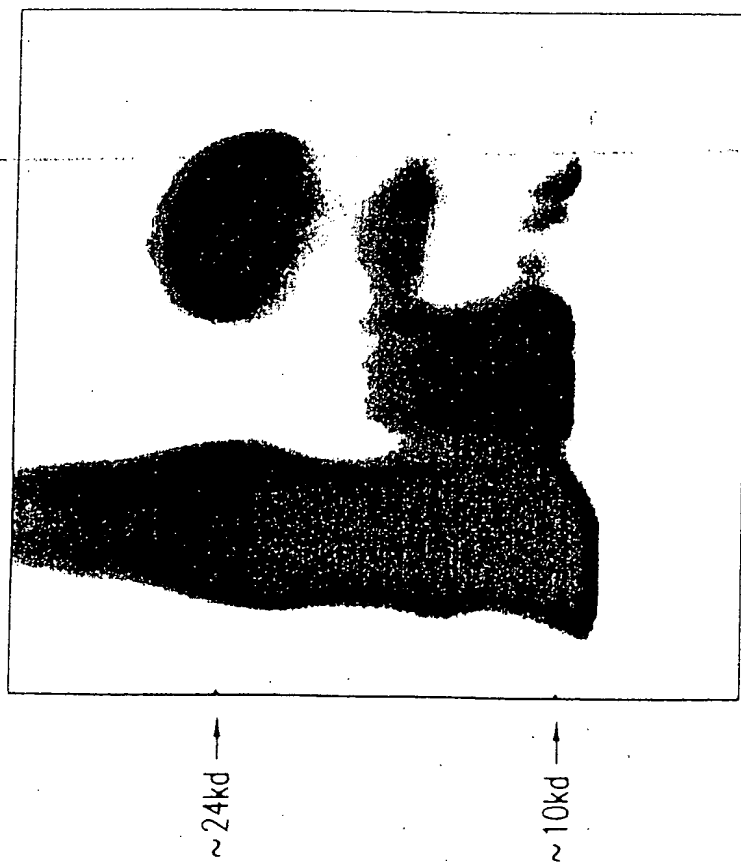


FIG. 11C

FIG. 12A

O GLYCOSIDASE
N GLYCOSIDASE F
CONTROL



SECRETED
CELL ASSOCIATED

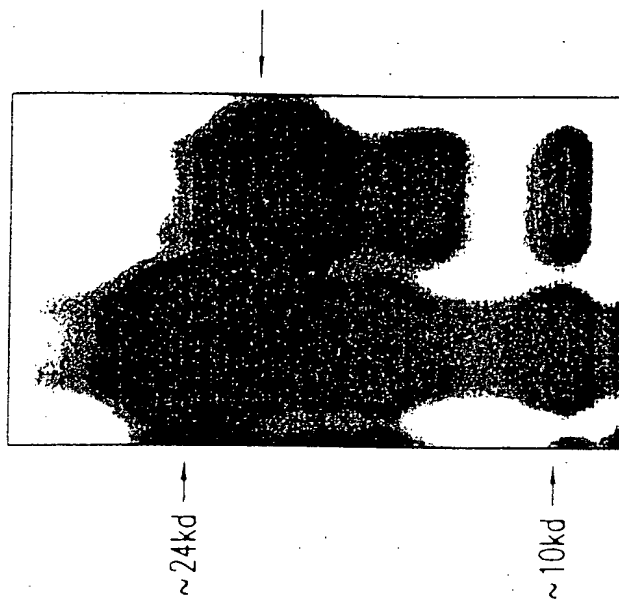


FIG. 12B

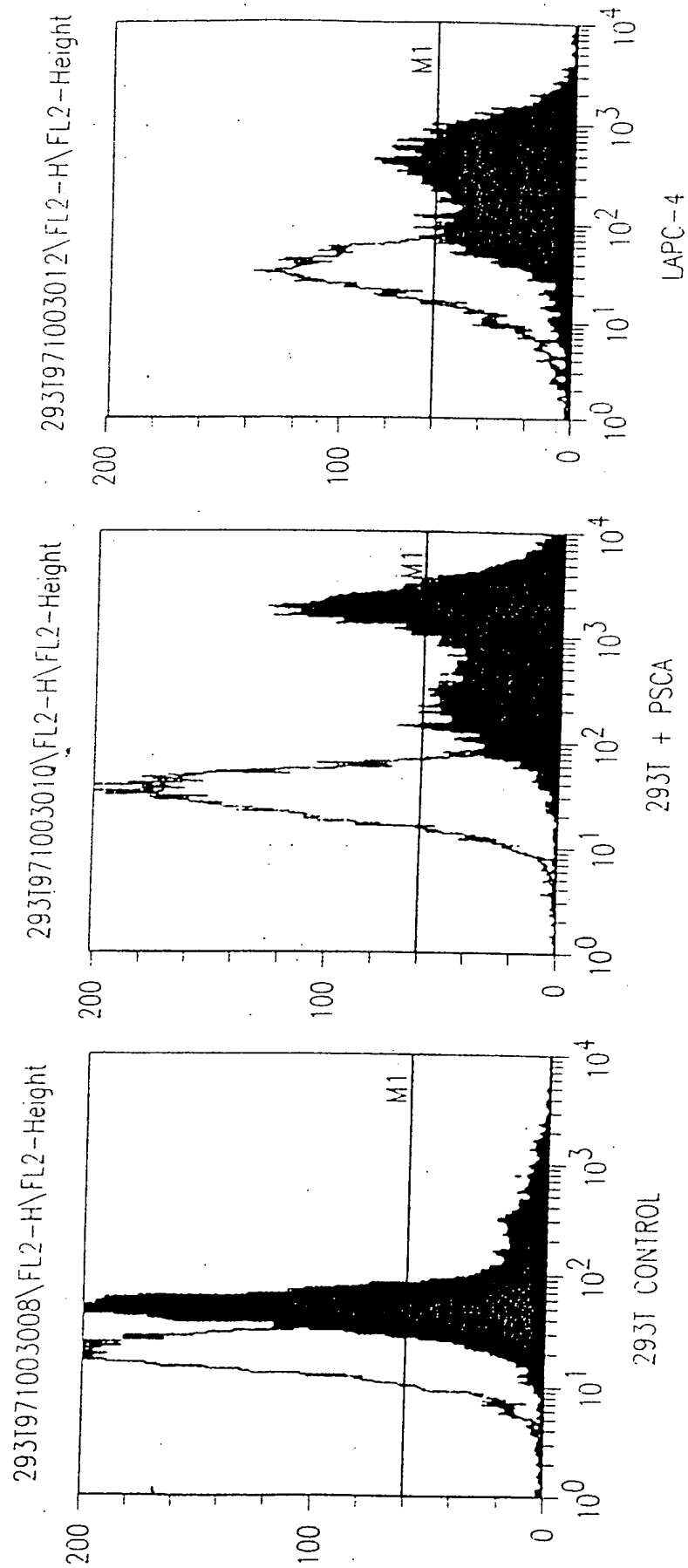


FIG. 12C

FIG. 13



FIG. 14A

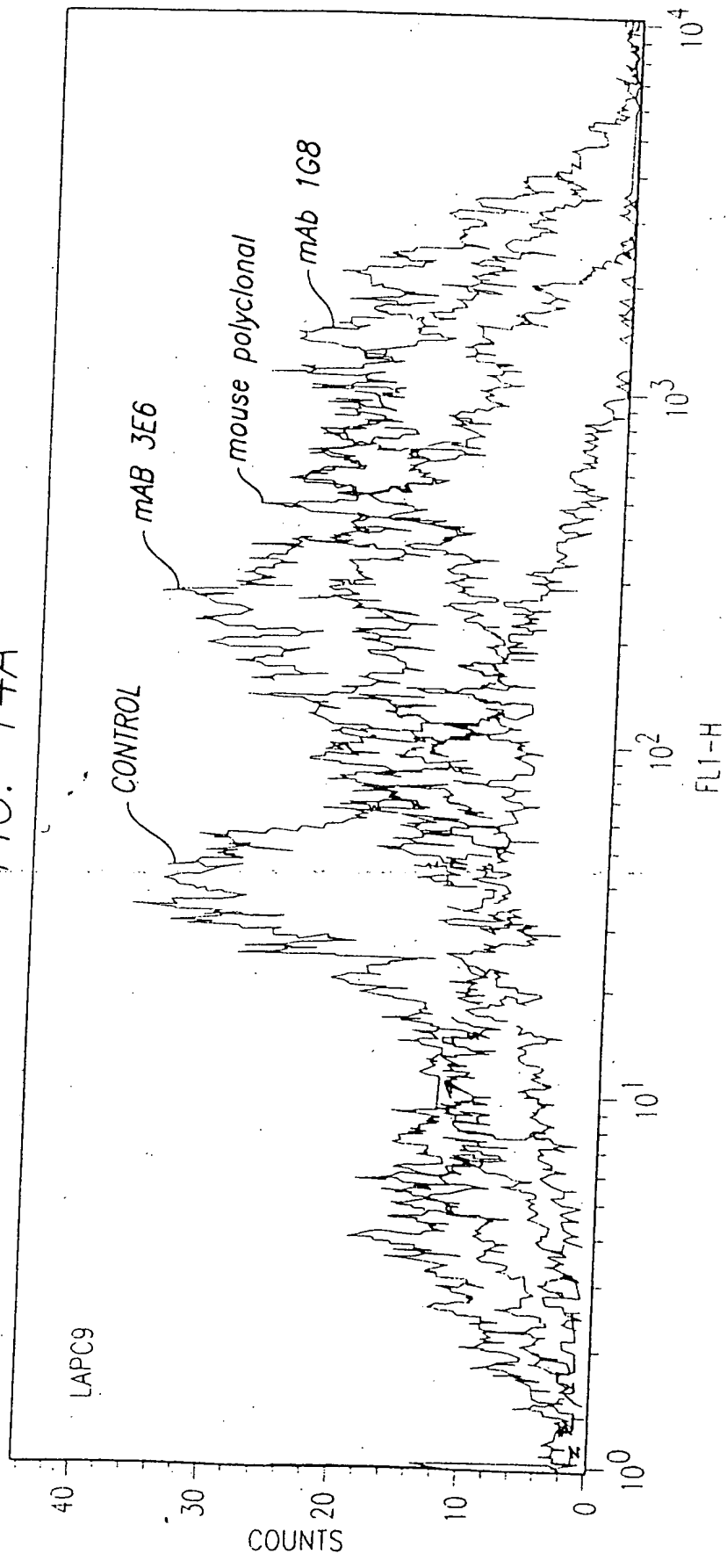


FIG. 14B

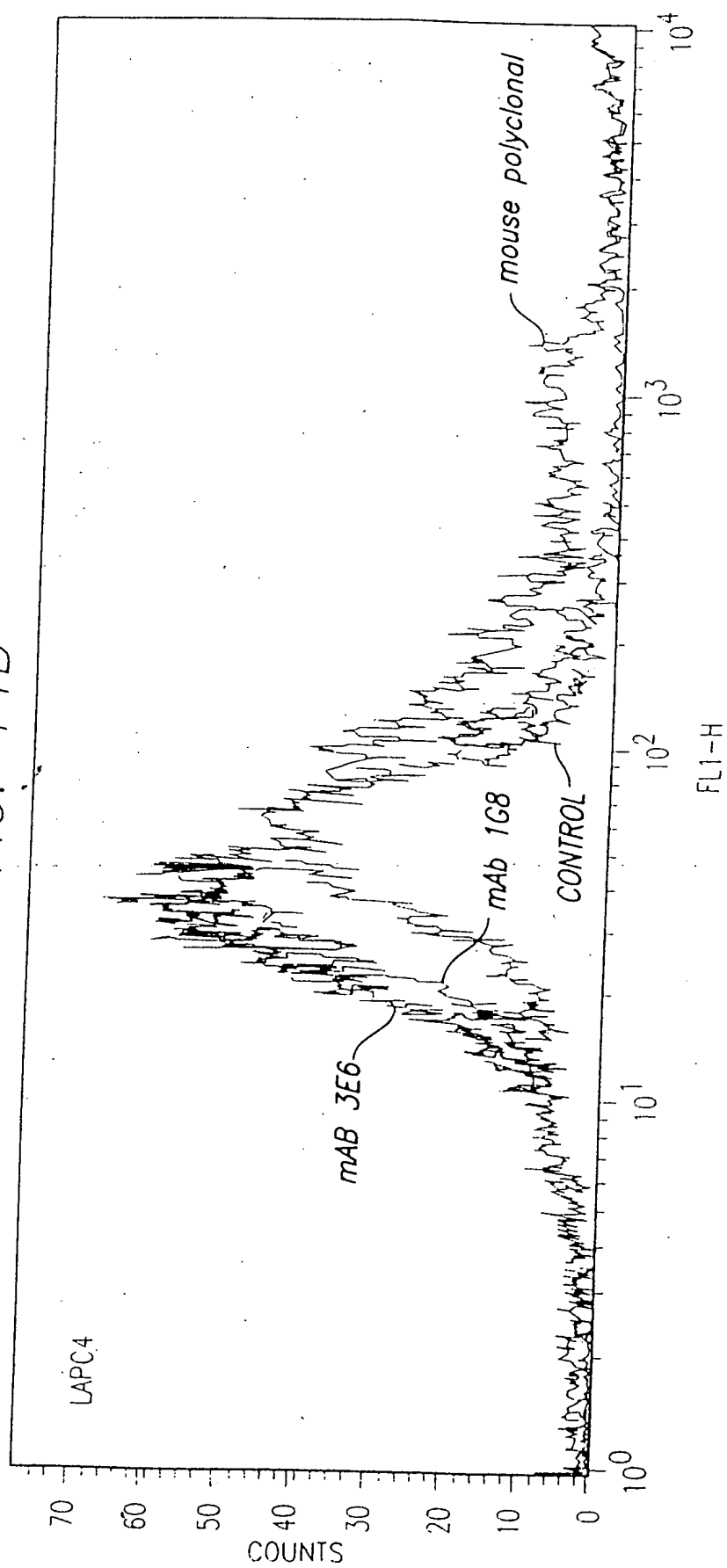
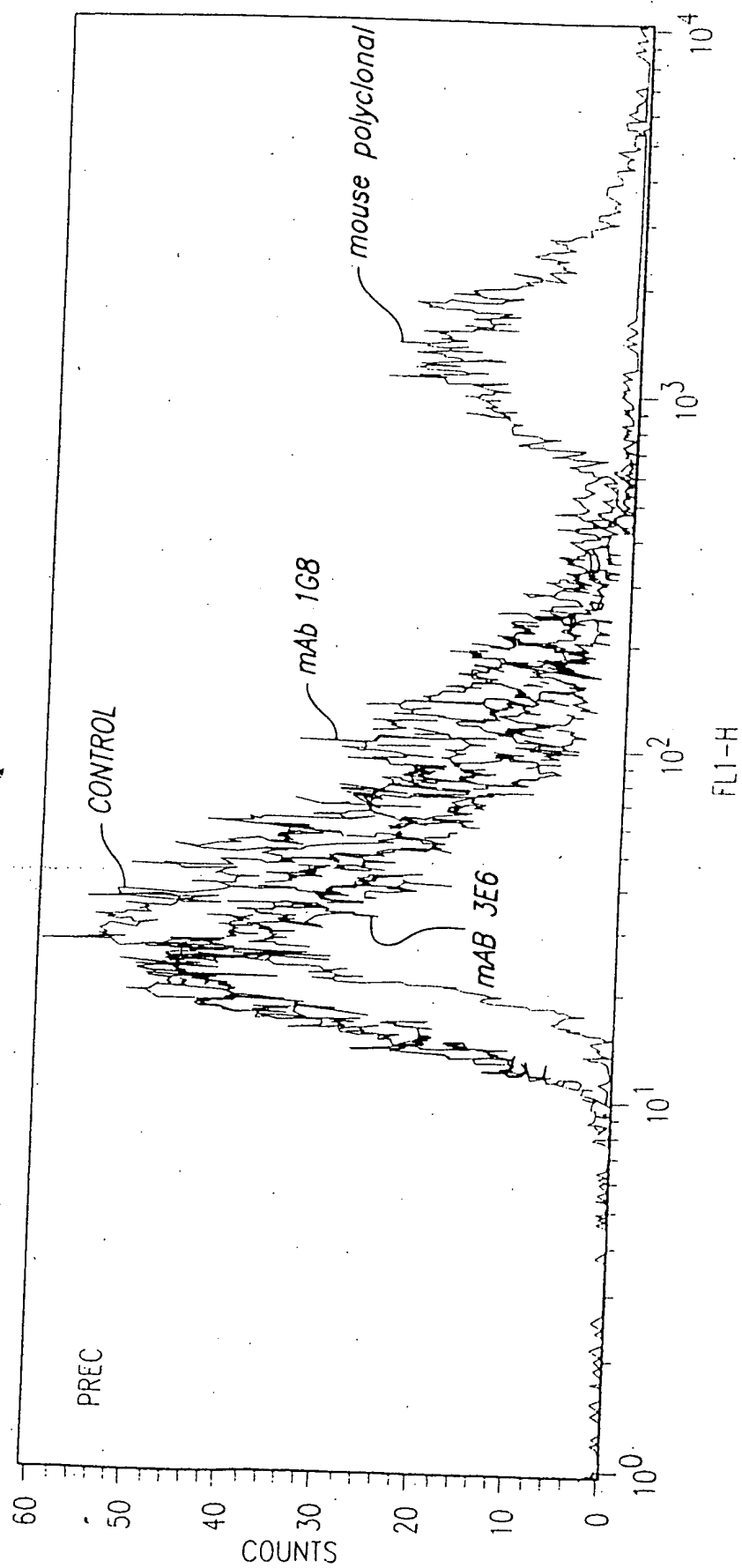


FIG. 14C



EPIIOPE MAP					
<u>mAb</u>	<u>ISOIYPE</u>	<u>FL (18-98)</u>	<u>N (2-50)</u>	<u>M (46-109)</u>	<u>C (85-123)</u>
1G8	IgG1 k	2.039	0.007	0.628	0.000
2H9	IgG1 k	1.318	0.863	0.032	0.021
3C5	IgG2a k	2.893	1.965	0.016	0.005
3E6	IgG3 k	0.328	0.024	0.069	0.370
4A10	IgG2a k	2.039	1.315	0.000	0.014
2A2	IgG2a k	1.366	0.733	0.010	0.003
3G3	IgG2a k	2.805	1.731	0.004	0.000

FIG. 15A

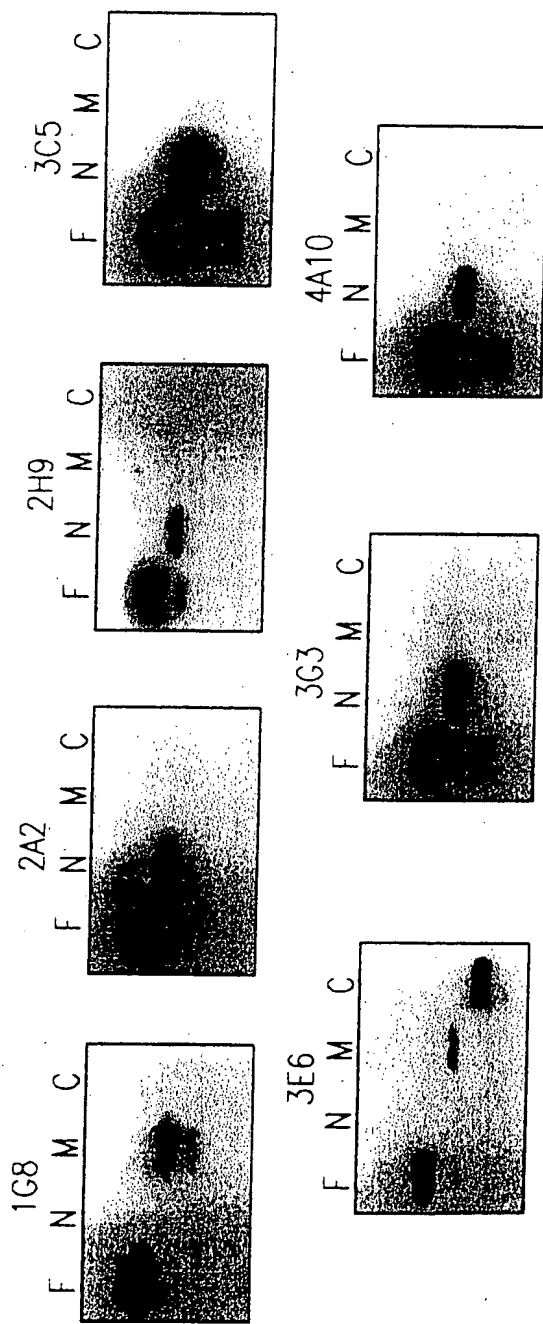


FIG. 15B

PROSTATE STEM CELL ANTIGEN (PSCA) IS A GPI-ANCHORED PROTEIN

1	M	K	I	F	L	P	V	L	L	A	A	L	L	G	V	E	R	A	S	S	hSCA-2
1	M	K	A	V	L	L	L	L	M	A	G	L	A	L	Q	P	G	T	A	A	hPSCA
1	M	K	T	V	L	F	L	L	A	T	Y	L	A	L	H	P	G	A	A	A	mPSCA
21	L	M	C	F	S	C	L	N	Q	K	S	N	L	Y	C	L	K	P	T	I	
21	L	L	C	Y	S	C	K	A	Q	V	S	N	E	D	C	L	Q	V	E	N	*
21	L	Q	C	Y	S	C	T	A	Q	M	N	N	R	D	C	L	N	V	Q	N	*
41	C	S	D	Q	D	N	Y	C	V	L	V	S	A	S	A	G	I	G	N	L	
41	C	T	Q	L	G	E	Q	C	W	T	A	R	T	R	A	V	G	L	L	T	
41	C	S	L	D	Q	H	S	C	F	T	S	R	I	R	A	I	G	L	V	T	
61	V	T	F	G	H	S	L	S	K	I	C	S	P	A	C	P	I	P	E	G	
61	V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
61	V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
81	V	N	V	G	V	A	S	M	G	T	S	C	C	Q	Q	S	F	E	C	N	*
76	D	Y	Y	V	C	K	K	-	-	N	I	T	C	C	D	T	D	L	C	N	*
76	N	Y	Y	L	G	K	K	-	-	N	I	T	C	C	Y	S	D	L	C	N	*
101	S	A	A	D	G	G	L	R	A	S	V	T	L	L	G	A	G	L	L	L	
95	S	G	A	H	A	L	Q	P	A	A	A	I	L	A	L	P	A	L	G	G	
95	N	G	A	H	T	L	K	P	P	T	T	L	G	L	L	T	V	L	C	S	
121	S	L	L	P	A	L	L	R	F	G	P	-	-	-	-	-	-	-	-	-	
115	L	L	L	W	G	P	G	Q	-	-	-	-	-	-	-	-	-	-	-	-	
115	L	L	L	W	G	S	S	R	L	-	-	-	-	-	-	-	-	-	-	-	

FIG. 16A

PROSTATE STEM CELL ANTIGEN (PSCA) IS A GPI-ANCHORED PROTEIN

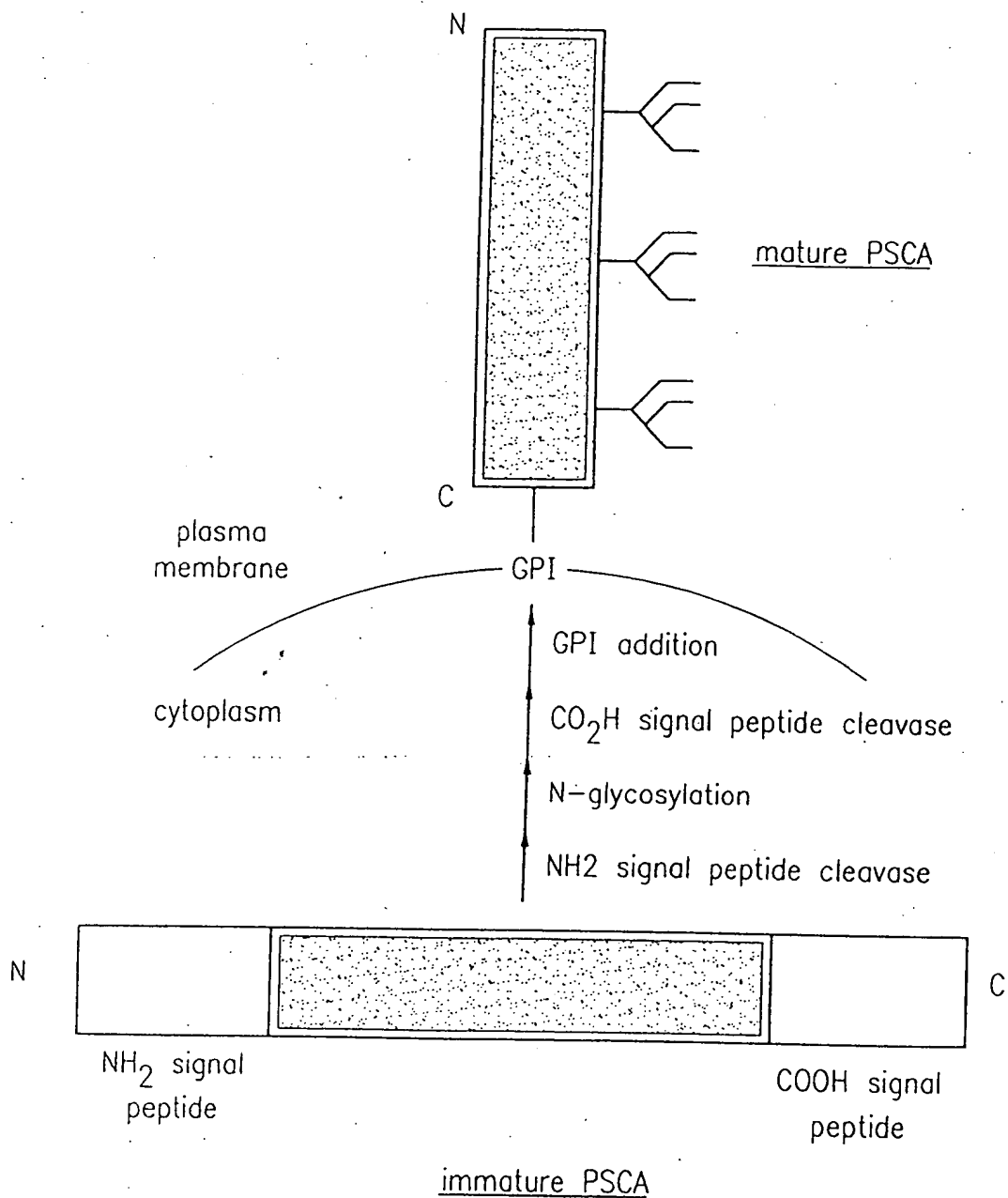


FIG. 16B

FIG. 17

FISH ANALYSIS OF PSCA AND c-myc IN PROSTATE CANCER

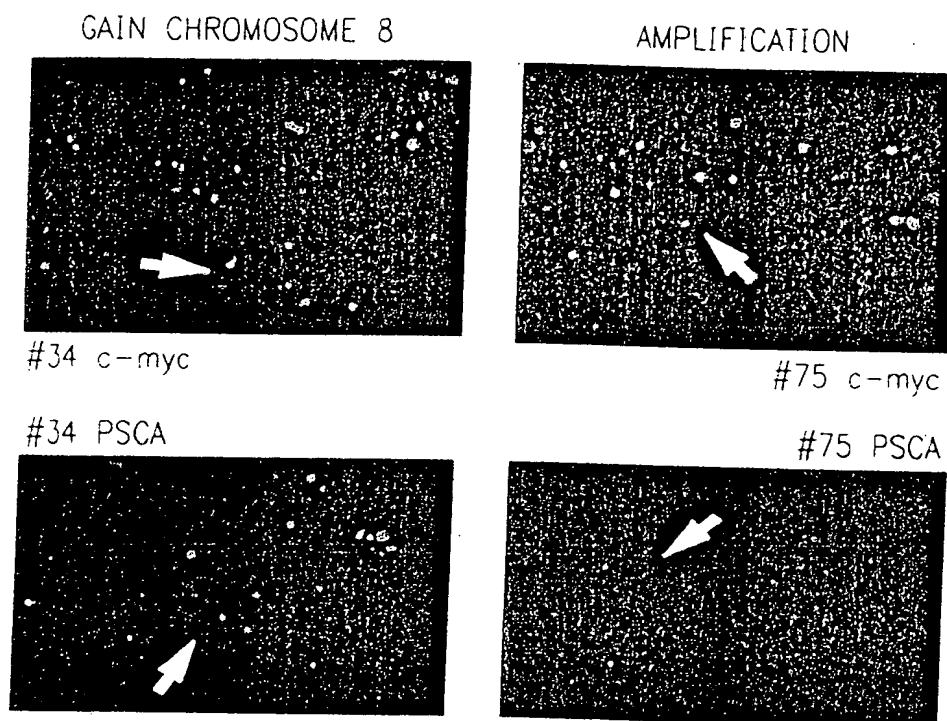
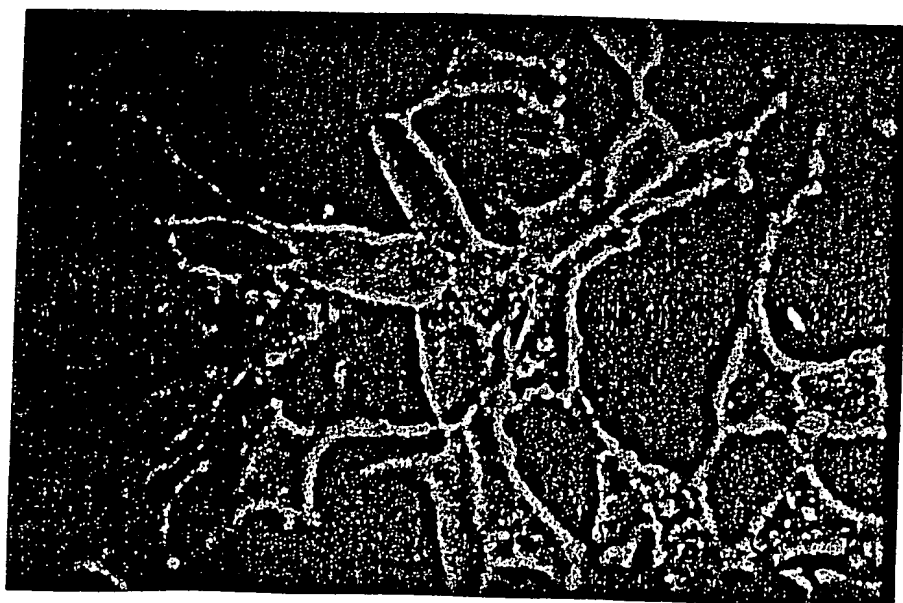


FIG. 18



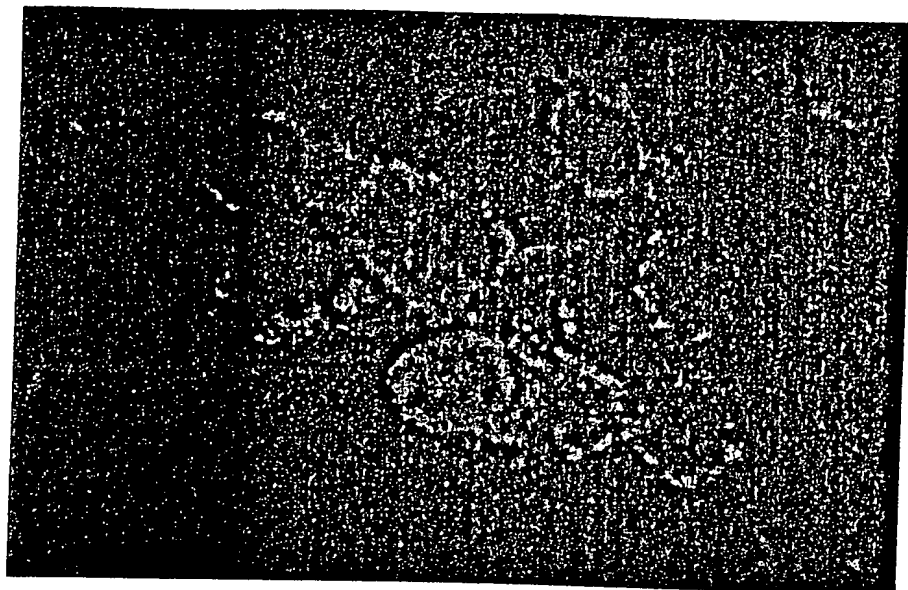


FIG. 19

FIG. 20

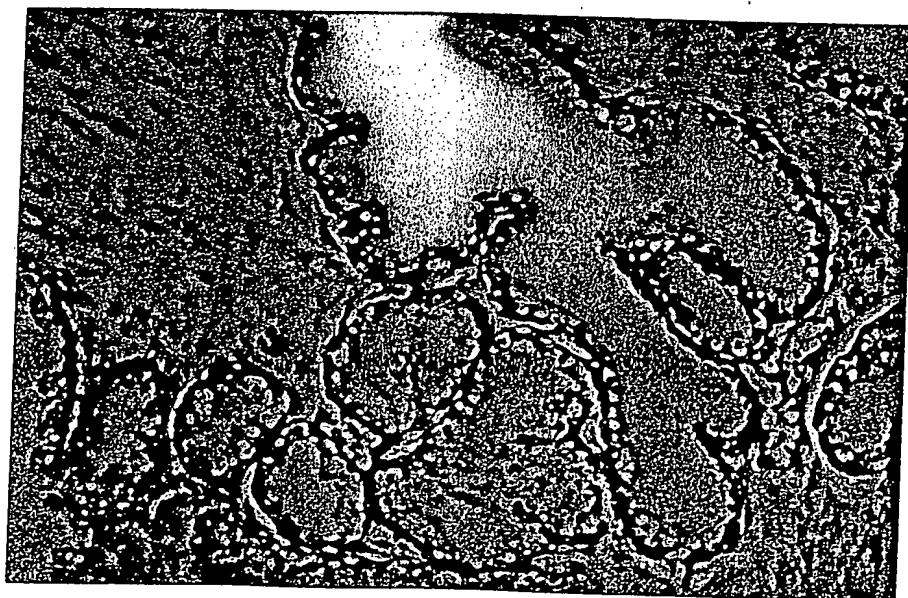
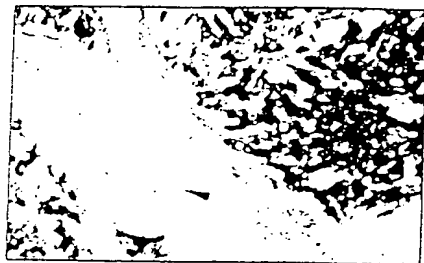
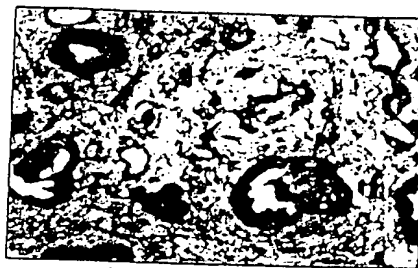


FIG. 21

PSCA IMMUNOSTAINING OF PRIMARY TUMORS



patient 1:mAb 1G8



patient 2:mAb 1G8



patient 3:mAb 1G8



patient 4:mAb 3E6

FIG. 22

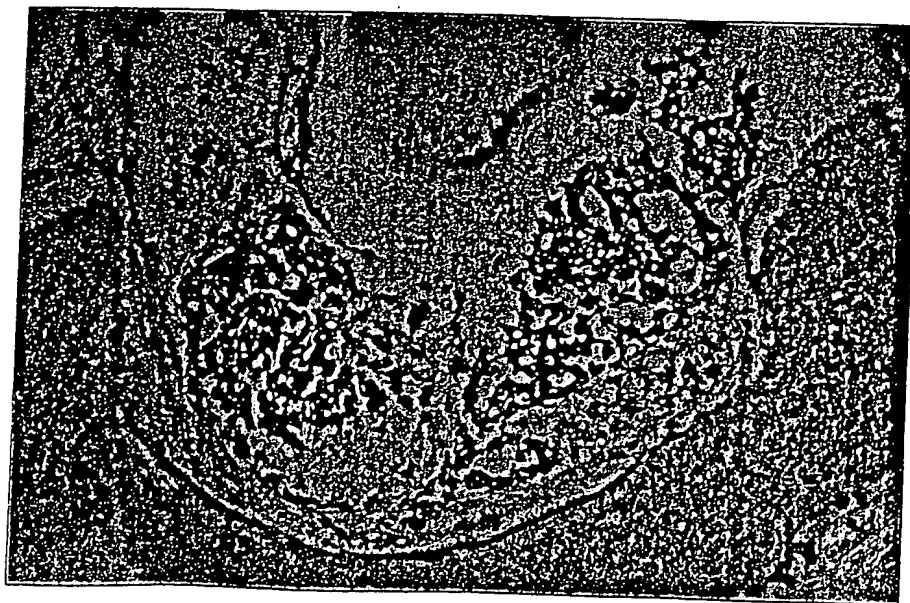


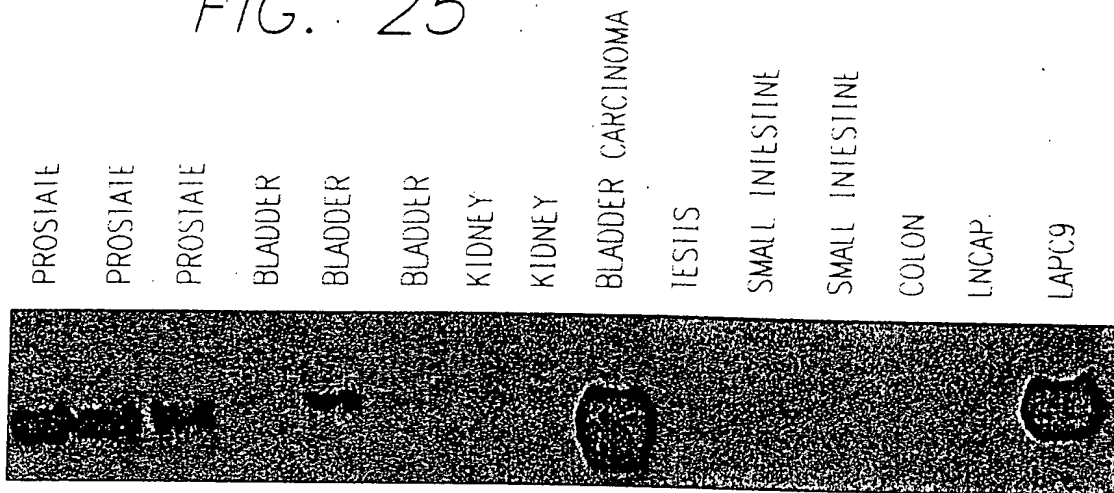


FIG. 23

FIG. 24



FIG. 25



PSCA NORTHERN

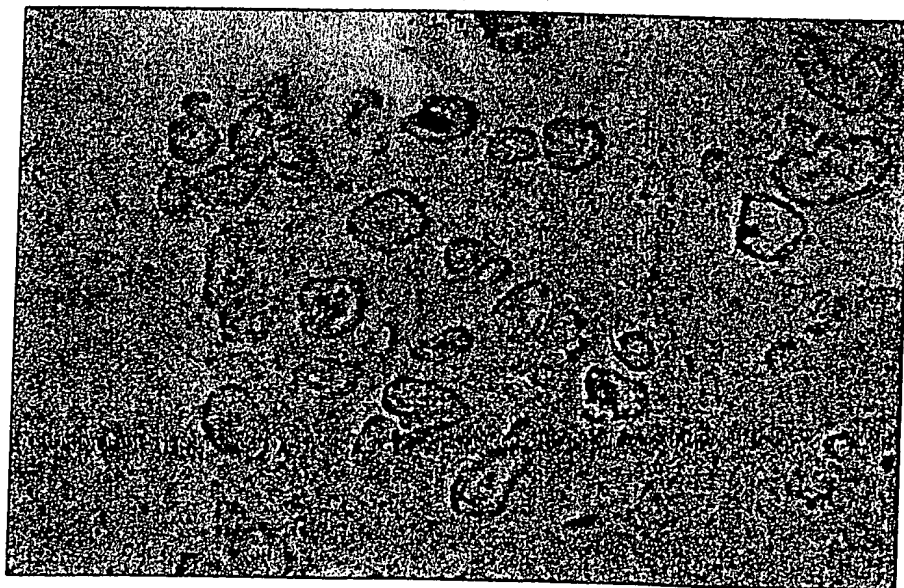


FIG. 26

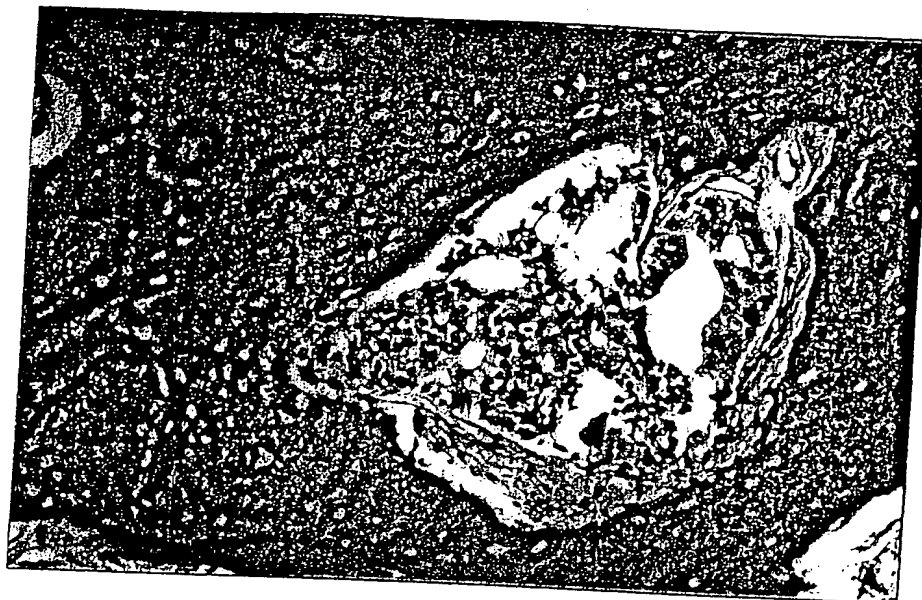
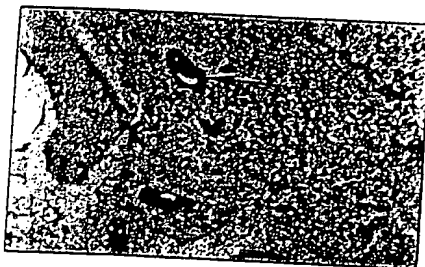
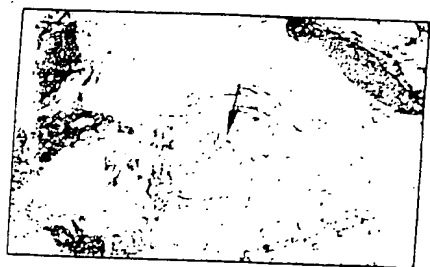


FIG. 27

PSCA IMMUNOSTAINING OF BONY METASTASES



Patient 5: H and E
and mAb 1G8



Patient 4: H and E
and mAb 3E6

FIG. 28

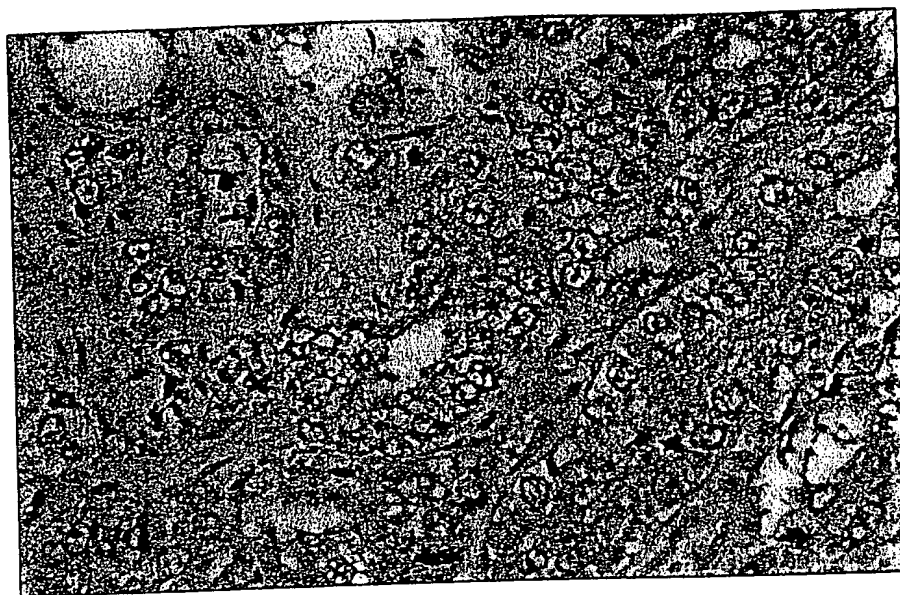


FIG. 29

FIG. 30





FIG. 31

FIG. 32

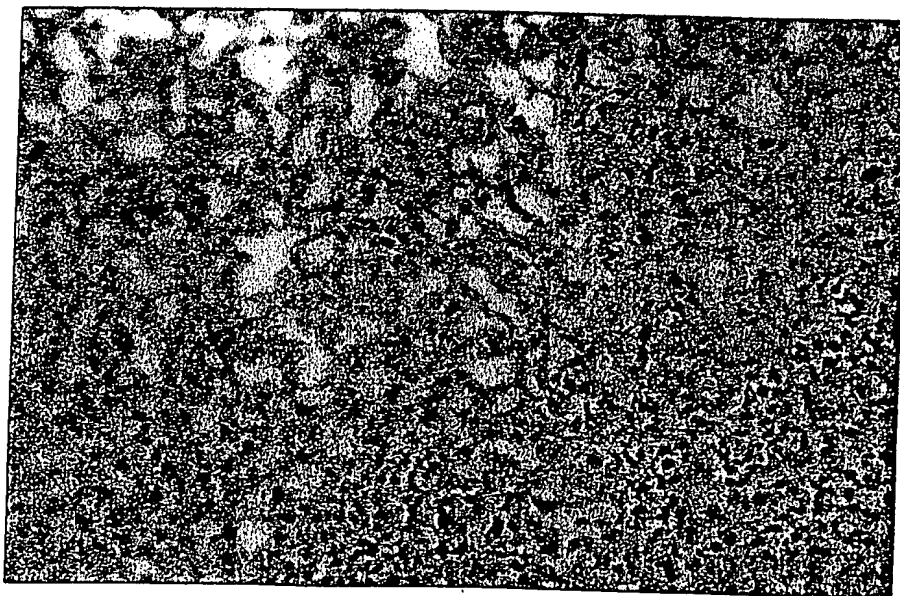
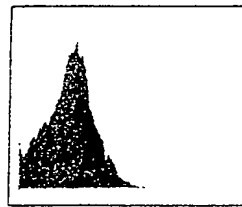


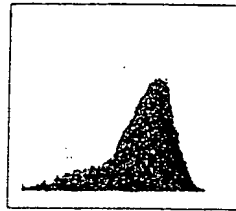
FIG. 33

PSCA EXPRESSION IN LAPC-9 XENOGRFT BY FACS

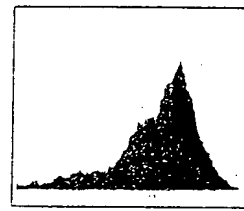
SECONDARY ANTIBODY



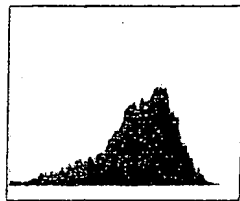
1G8



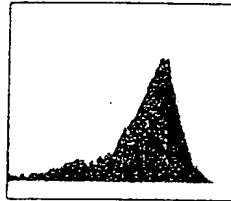
2H9



4A10



3C5



3E6

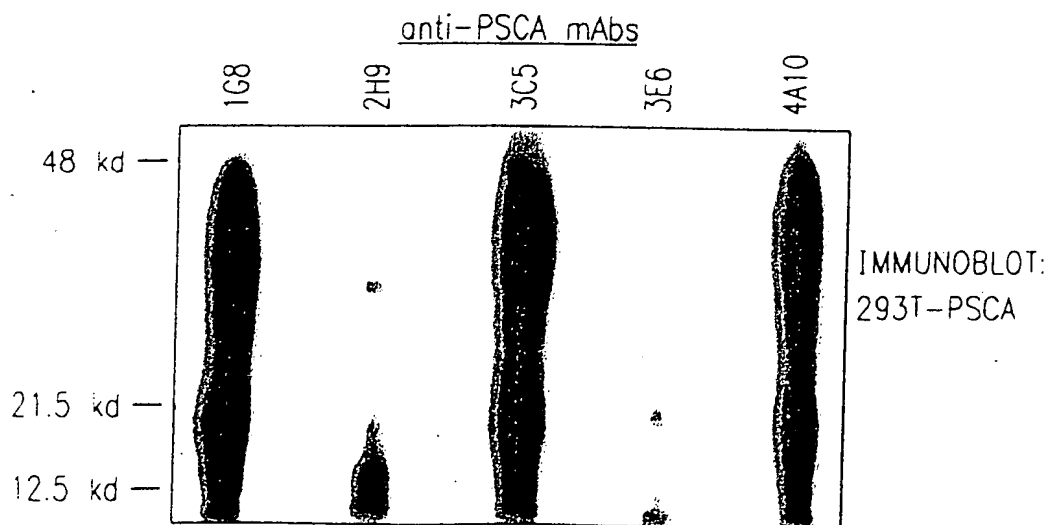
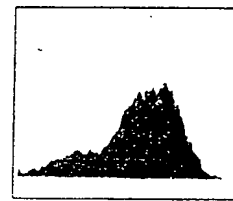


FIG. 34

FIG. 35

IMMUNOFLOUORESCENT STAINING OF LNCaP-PSCA CELLS

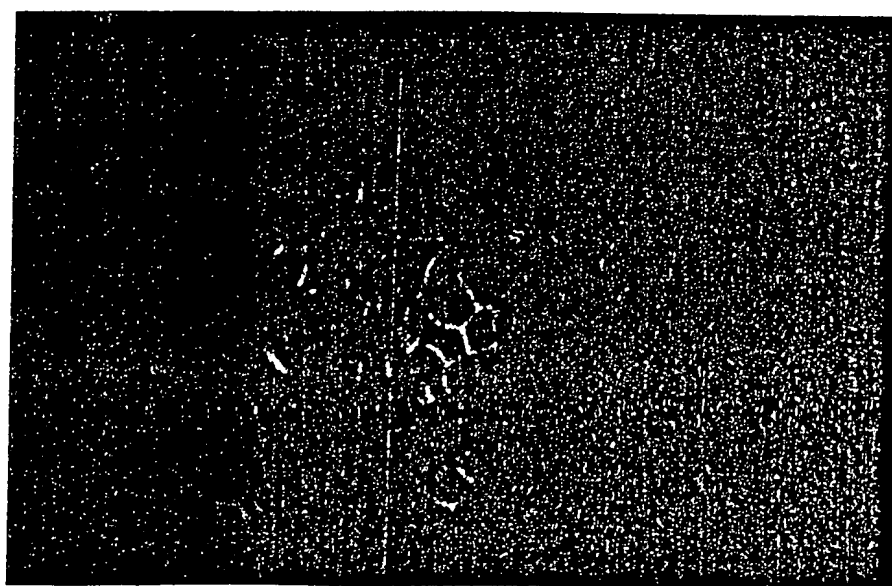
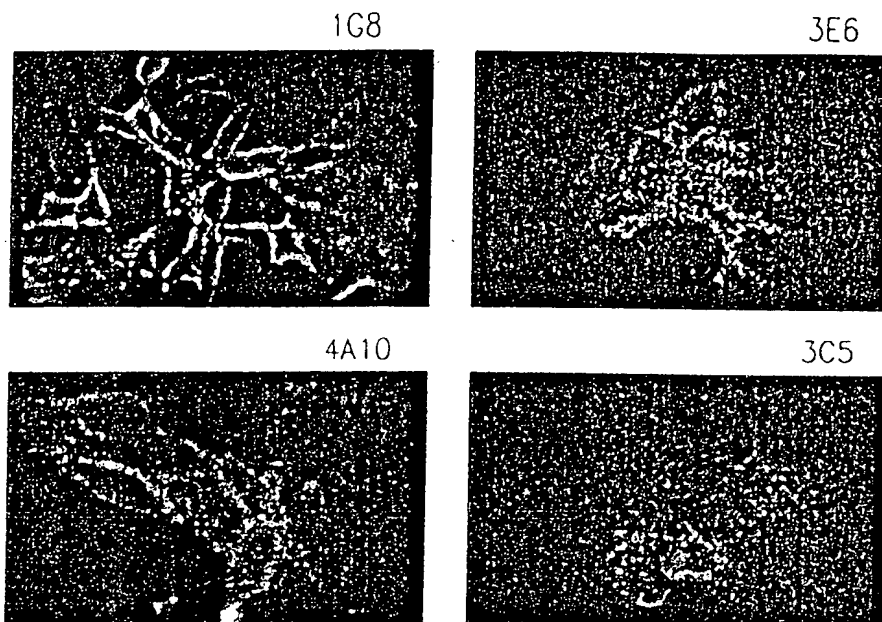


FIG. 36

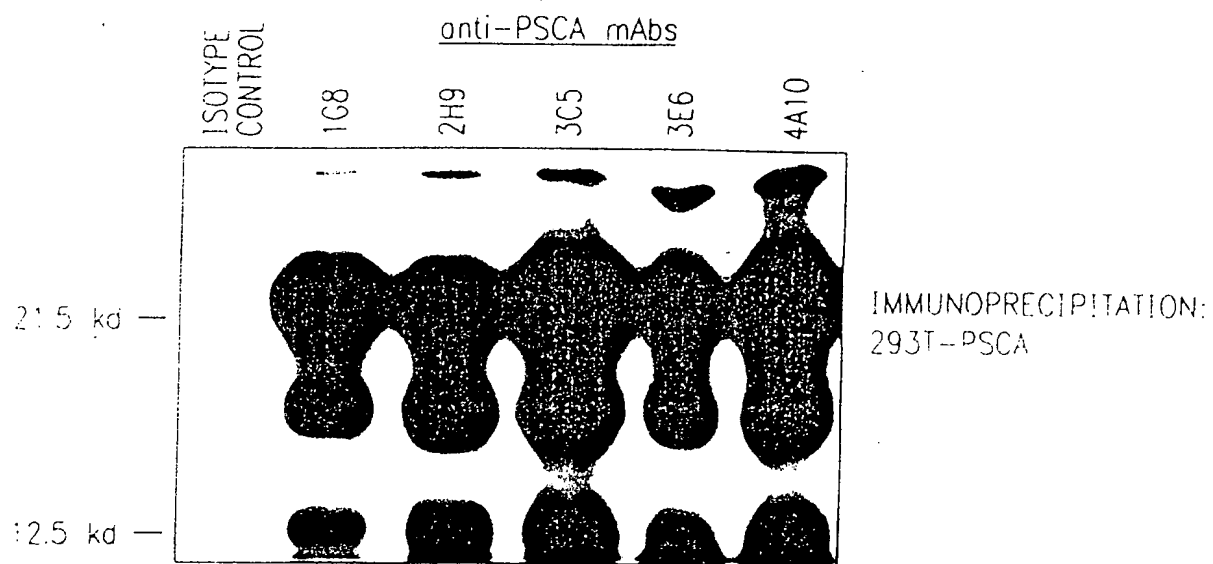


FIG. 37

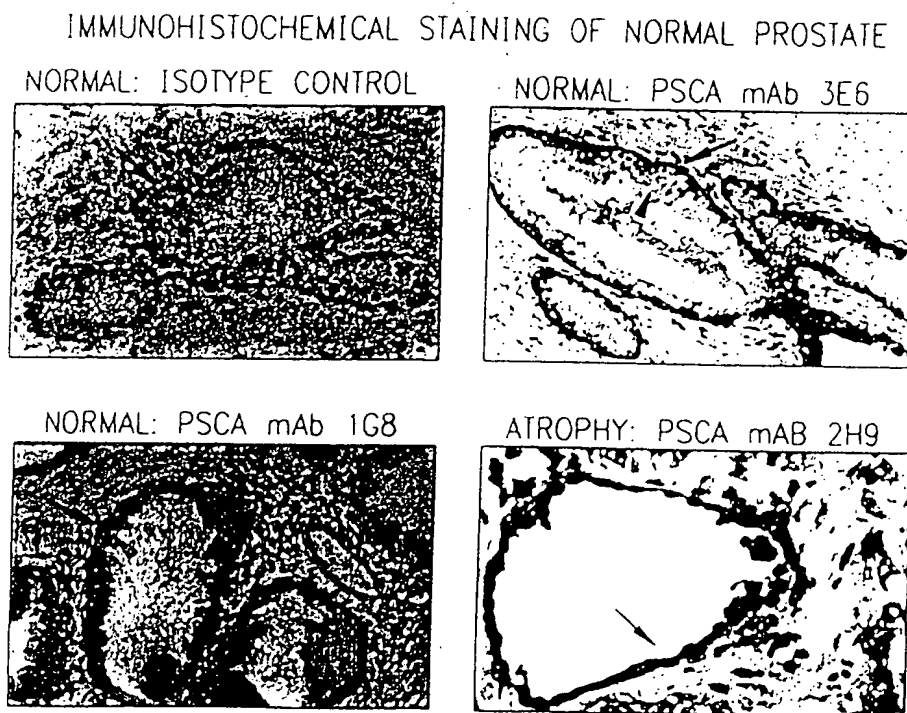
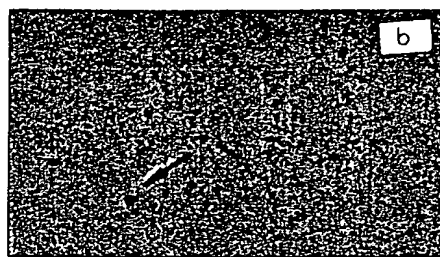


FIG. 38

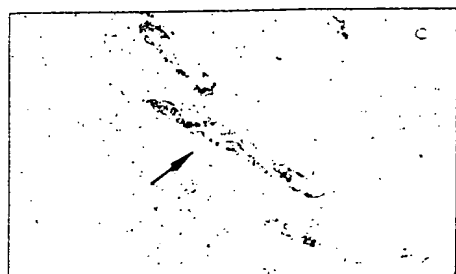
FIG. 39A



BLADDER: 1G8



COLON: 1G8



KIDNEY: 3E6



PLACENTA: 3E6

PROSTATE

PROSTATE

PROSTATE

KIDNEY

KIDNEY

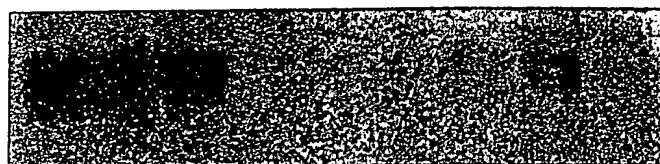
KIDNEY

BLADDER

BLADDER

BLADDER

LAPC 9



PSCA



ACTIN

FIG. 39B

FIG. 40A

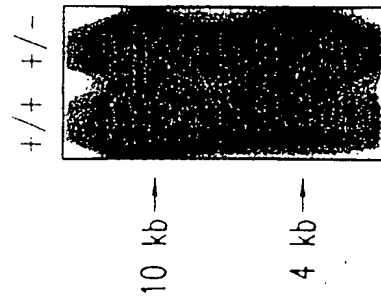
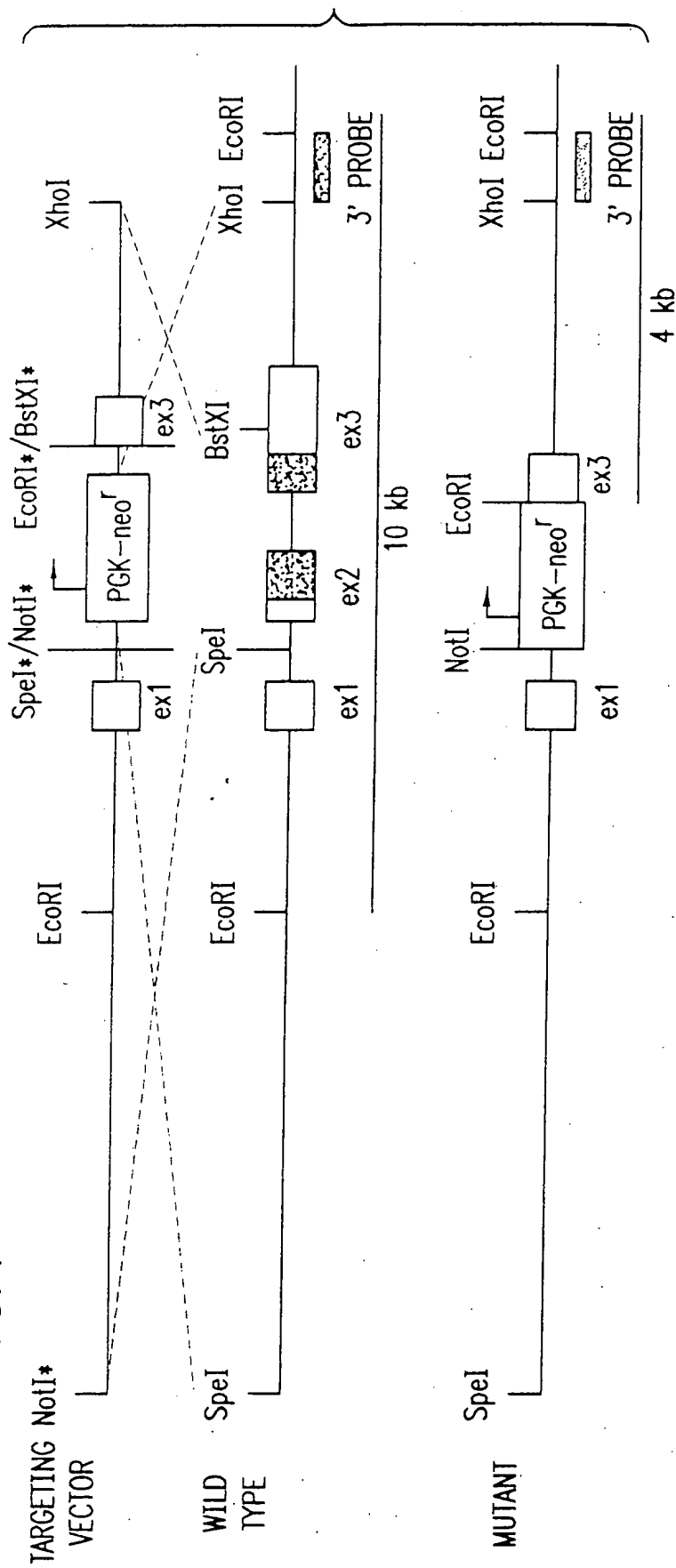
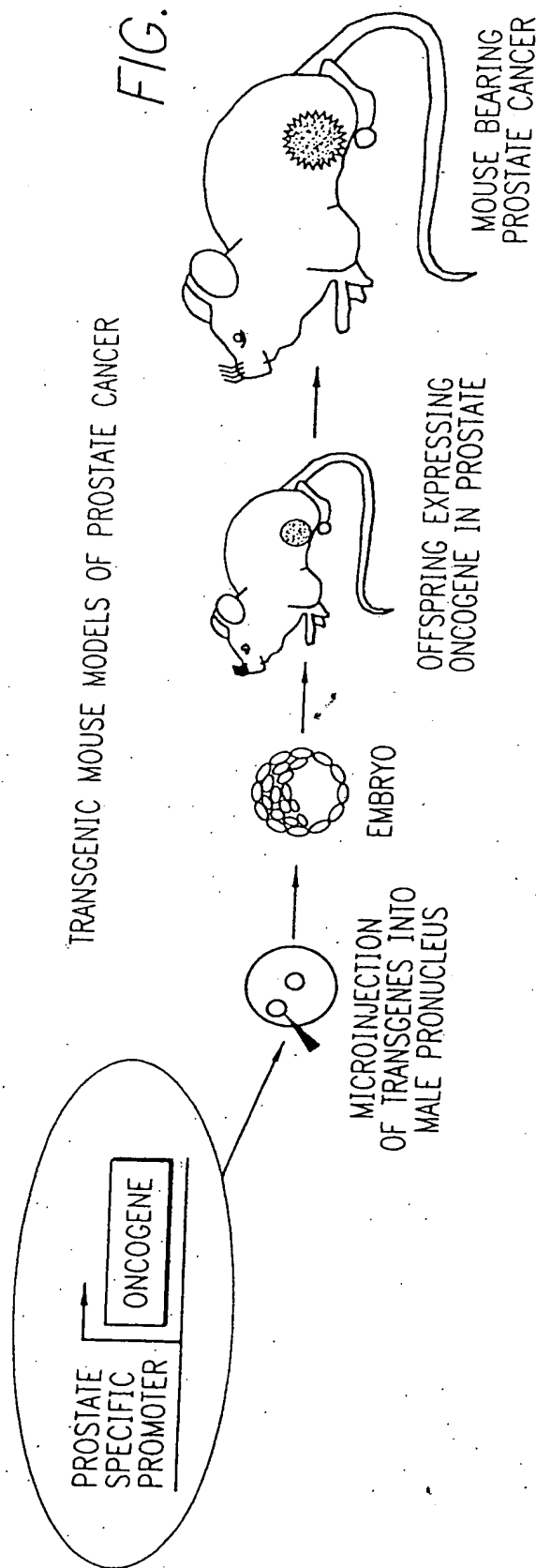


FIG. 40B

FIG. 41

TRANSGENIC MOUSE MODELS OF PROSTATE CANCER



TRANSGENE	TARGET TISSUES	CHARACTERISTICS
C3(1) (-3 kb)/ SV40 LARGE+SMALL, T MAROULAKOU et al. 1994 PNAS	PROSTATE (SECRETORY CELLS) URETHRAL, MAMMARY AND SWEAT GLAND	LOW-GRADE PIN 8-12 WKS HIGH-GRADE PIN 8-12 WKS INVASIVE CARCINOMA 28 WKS NO METASTASES
PROBASIN (-426 bp)/ SV40 LARGE+SMALL, T GREENBERG et al. 1995 PNAS	PROSTATE (SECRETORY CELLS)	LOW-GRADE PIN 5-8 WKS HIGH-GRADE PIN 8-12 WKS INVASIVE CARCINOMA 12 WKS METASTASES IN LYMPH NODE, LUNG, LIVER AND BONE
CRYPTIDIN2 (-6.5 kb)/ SV40 LARGE+SMALL, T CARABEDIAN et al. 1998 PNAS	PROSTATE (NEUROENDOCRINE CELLS) SMALL INTESTINE	LOW-GRADE PIN 8-12 WKS HIGH-GRADE PIN 8-12 WKS INVASIVE CARCINOMA 16 WKS METASTASES IN LYMPH NODE, LUNG, LIVER, AND BONE

REPORTER GENE CONSTRUCTS FOR TRANSFECTION ASSAY

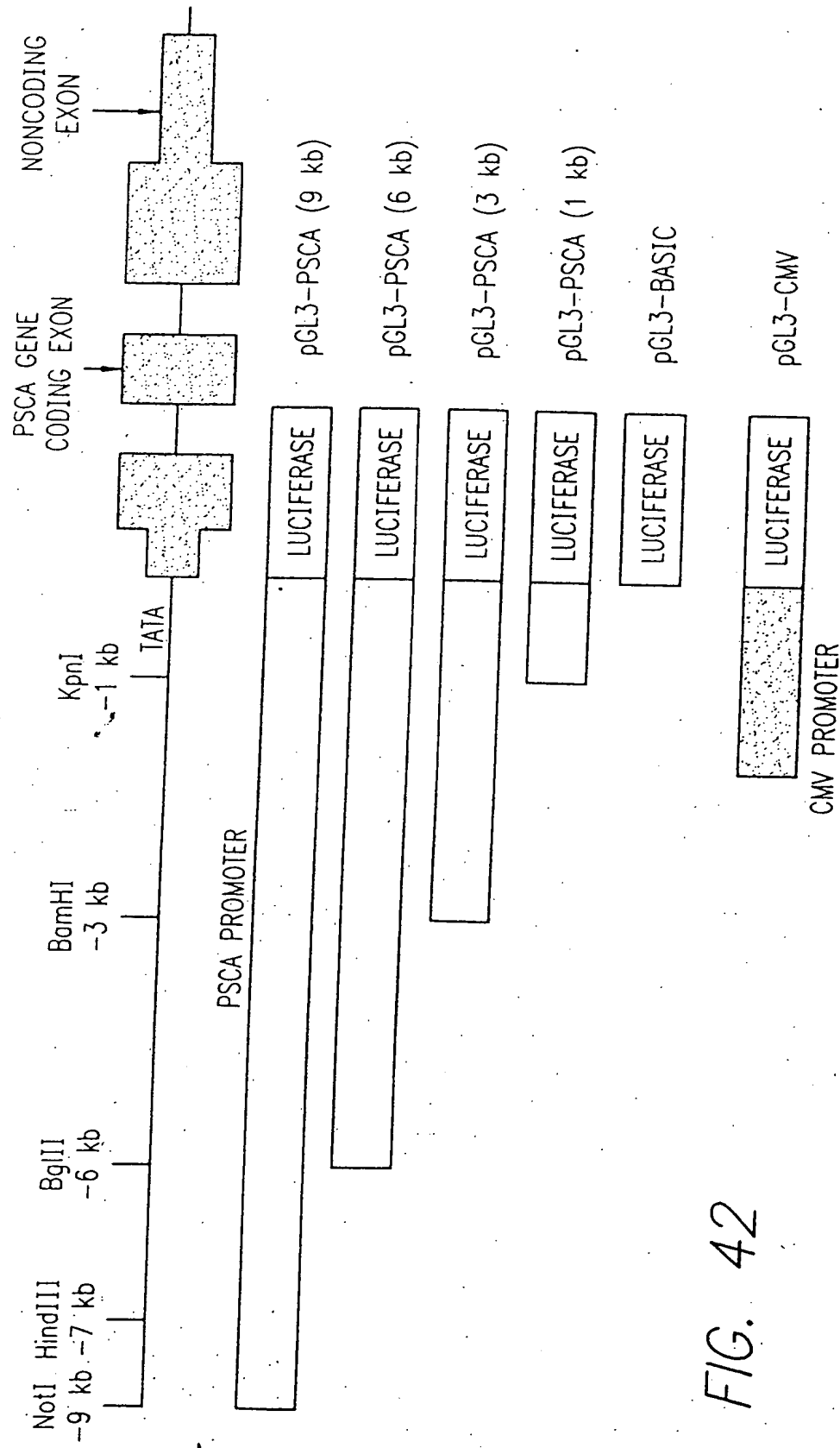


FIG. 42

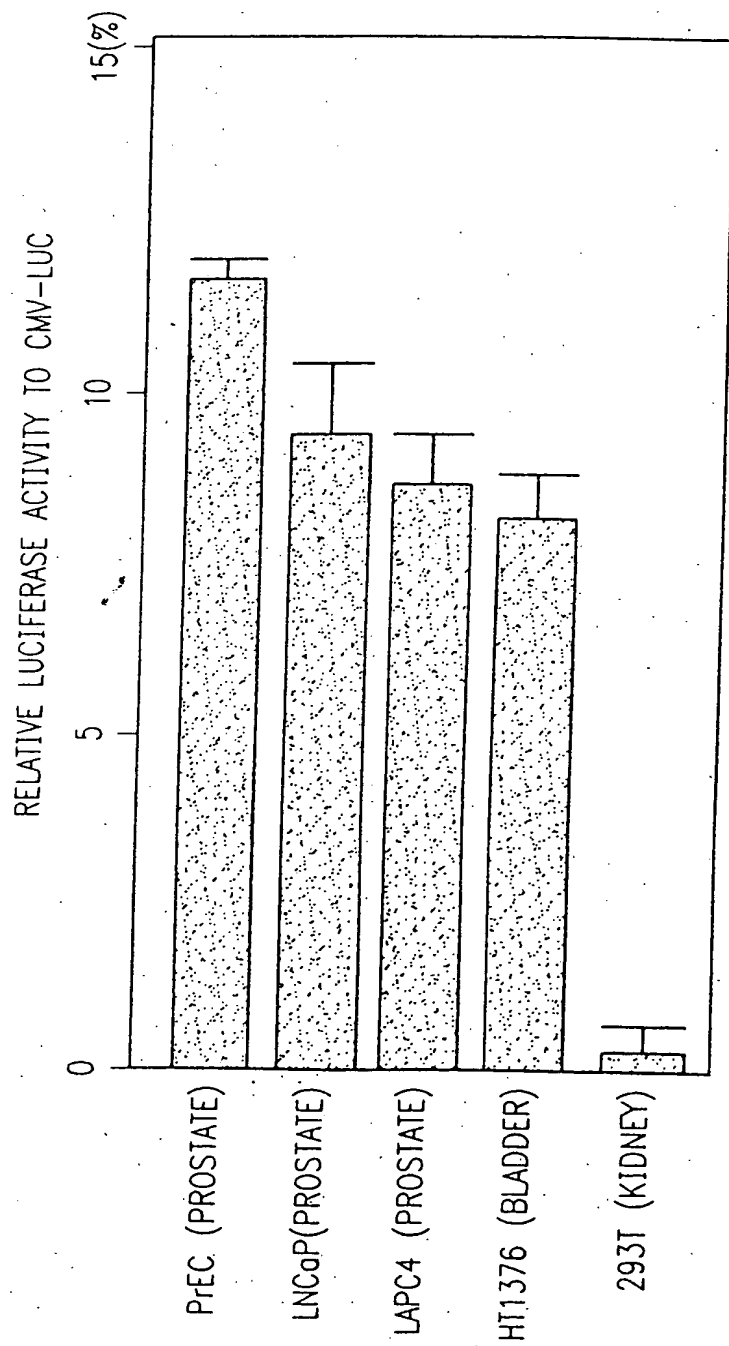


FIG. 43

IDENTIFICATION OF PROSTATE-SPECIFIC ELEMENTS WITHIN PSCA PROMOTER SEQUENCES

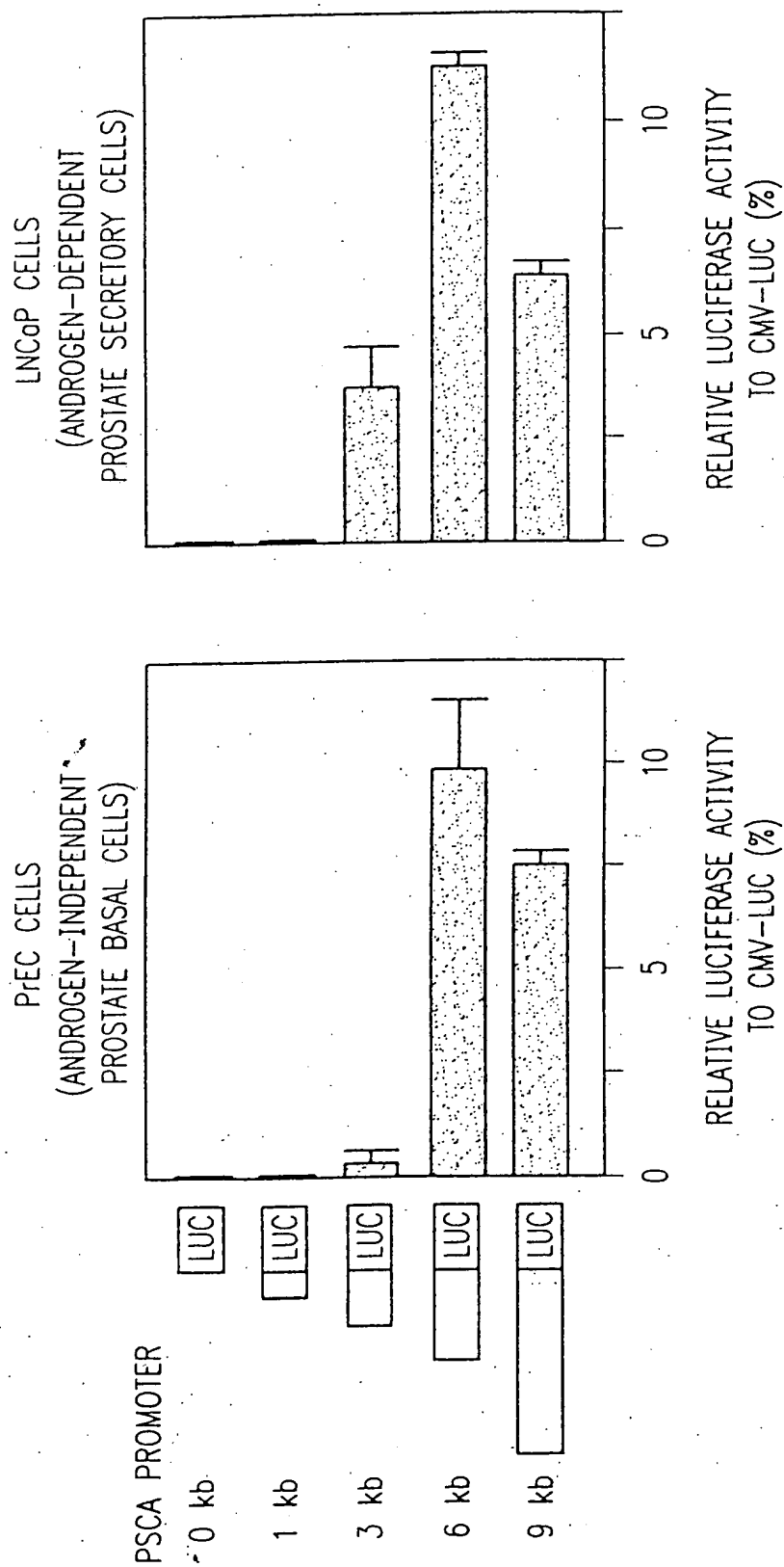
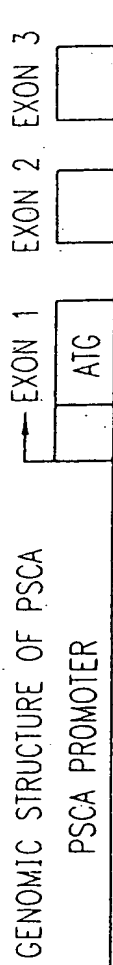


FIG. 44

FIG. 45

UPDATE OF TRANSGENIC MOUSE PROJECTS



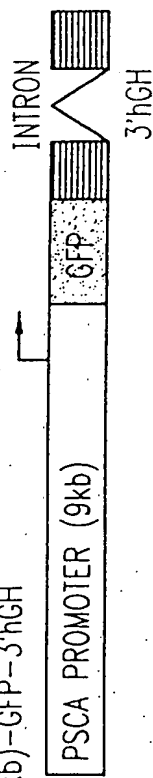
PSCA(9 kb)-GFP



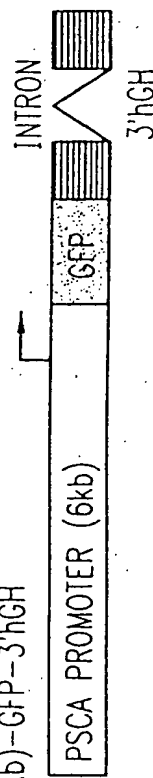
PSCA(6 kb)-GFP



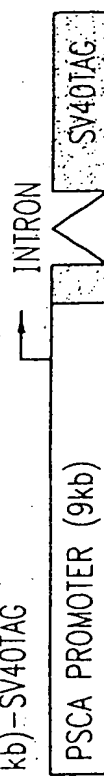
PSCA(9 kb)-GFP-3'hGH



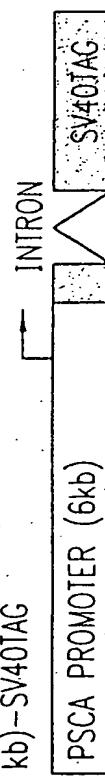
PSCA(6 kb)-GFP-3'hGH



PSCA(9 kb)-SV40TAG



PSCA(6 kb)-SV40TAG



NUMBER OF FOUNDERS (DNA POSITIVE)
2
1
6
8
3
9

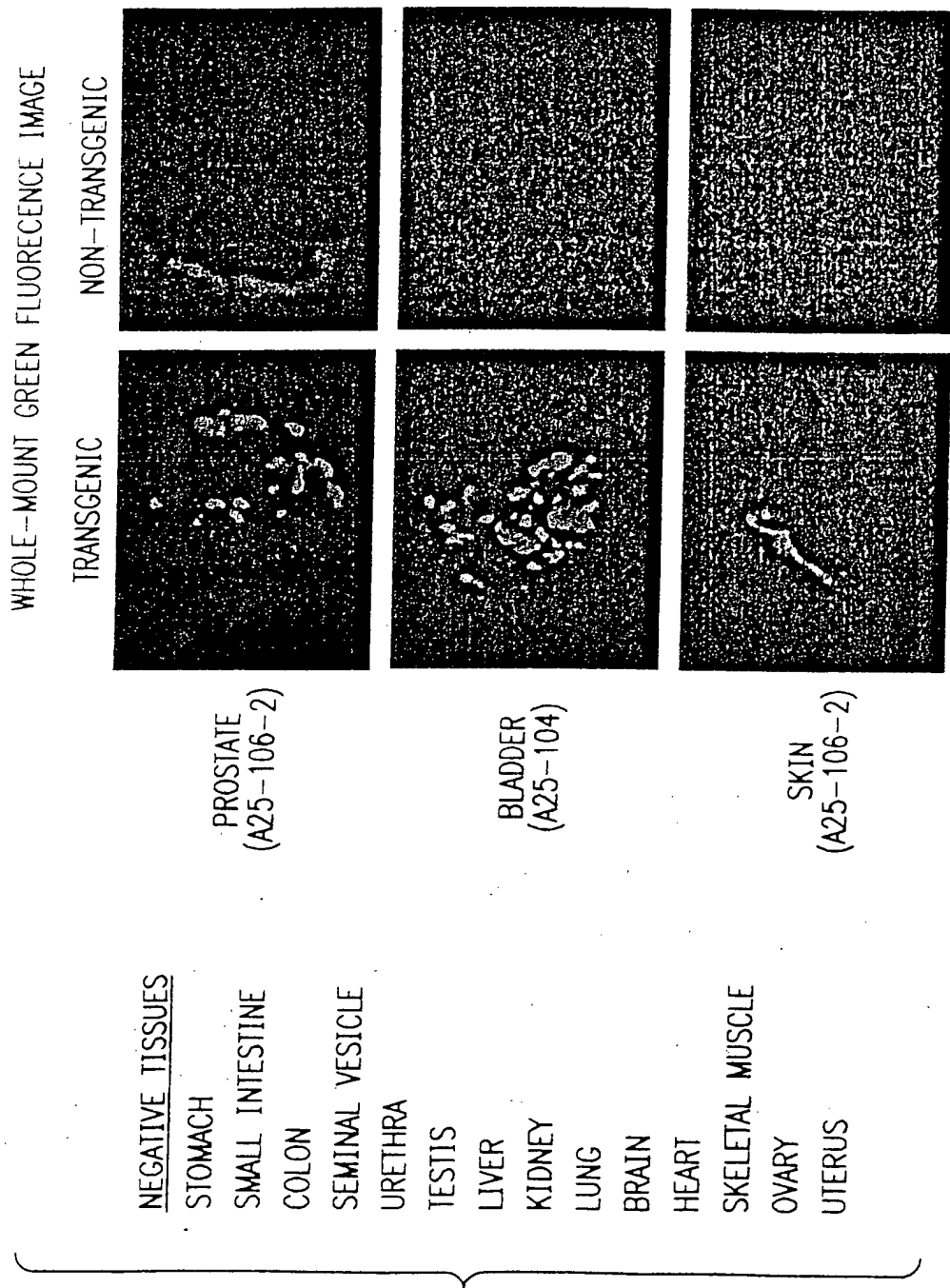


FIG. 46

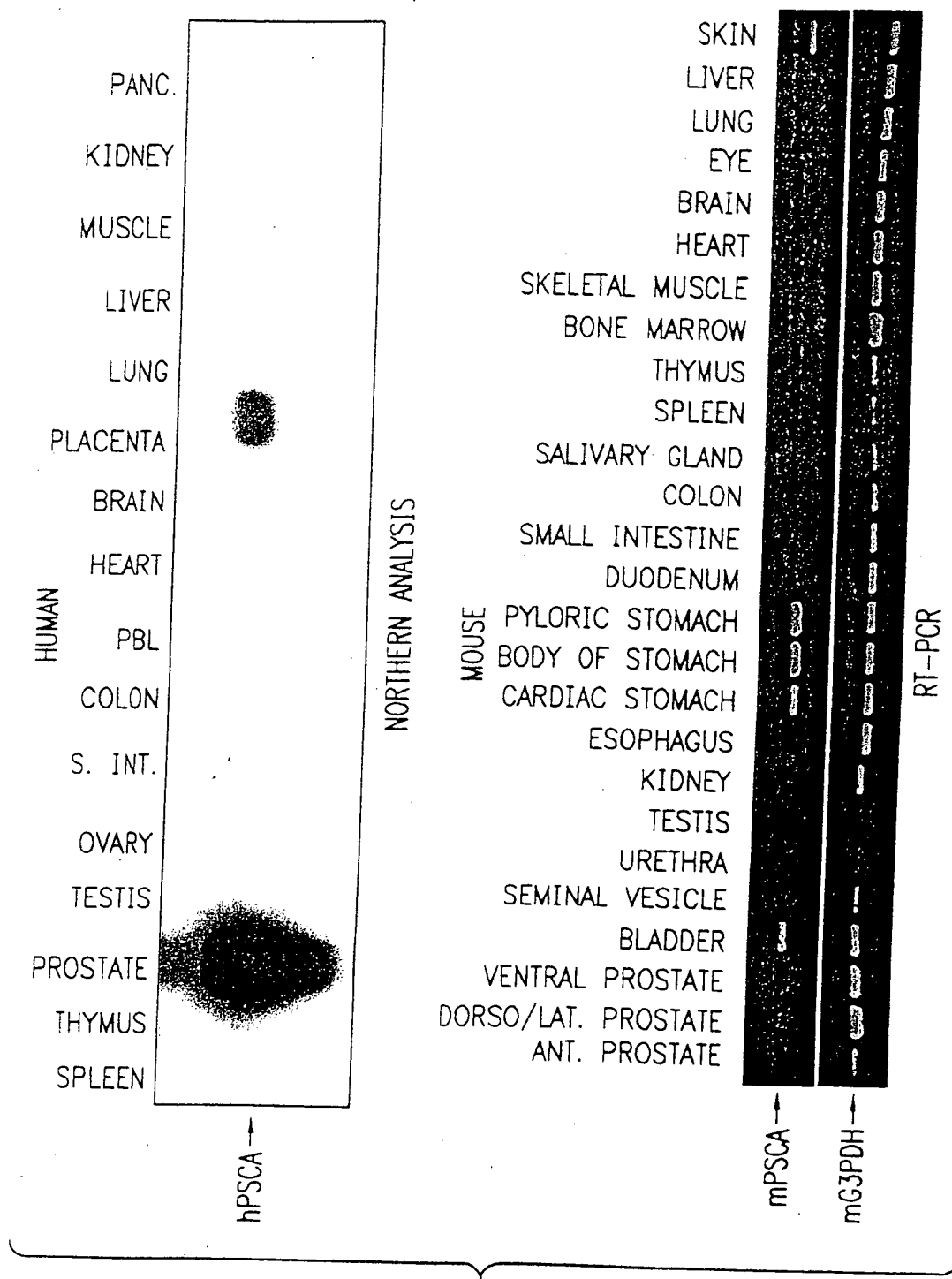


FIG. 47

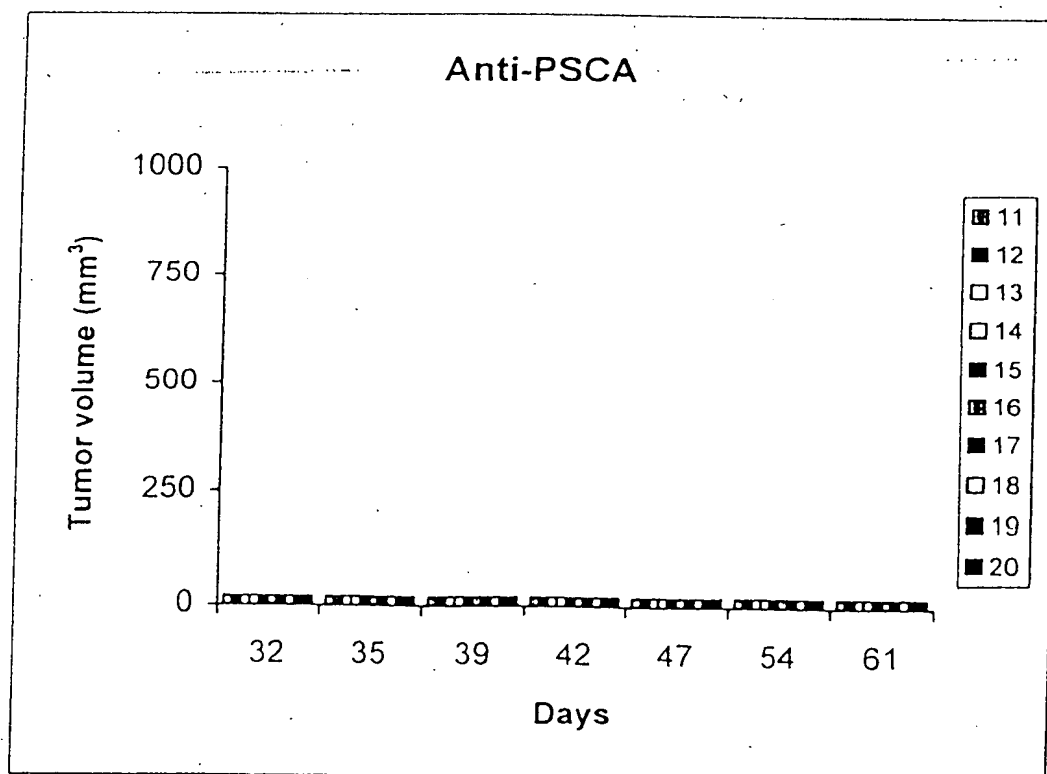
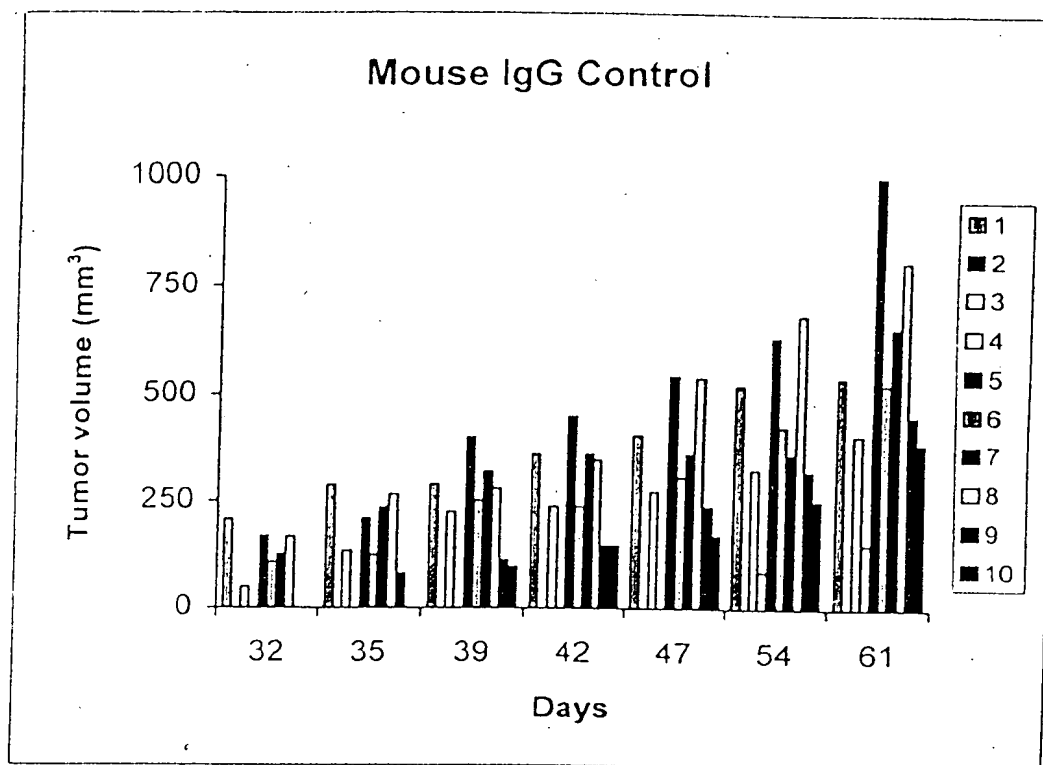


FIG. 49

A

Epitope recognized (OD 450 nm)

mAb	Isotype	F (18-98)	N (2-50)	M (46-109)	C (85-123)
1G8	IgG1 k	1.485	0.004	1.273	0.003
2A2	IgG2a k	0.973	0.631	0.023	0.010
2H9	IgG1 k	1.069	1.026	0.002	0.001
3C5	IgG2a k	1.916	1.709	0.006	0.002
3E6	IgG3 k	1.609	0.036	1.133	2.118
3G3	IgG2a k	2.805	1.731	0.004	0.000
4A10	IgG2a k	1.053	0.493	0.000	0.001

B

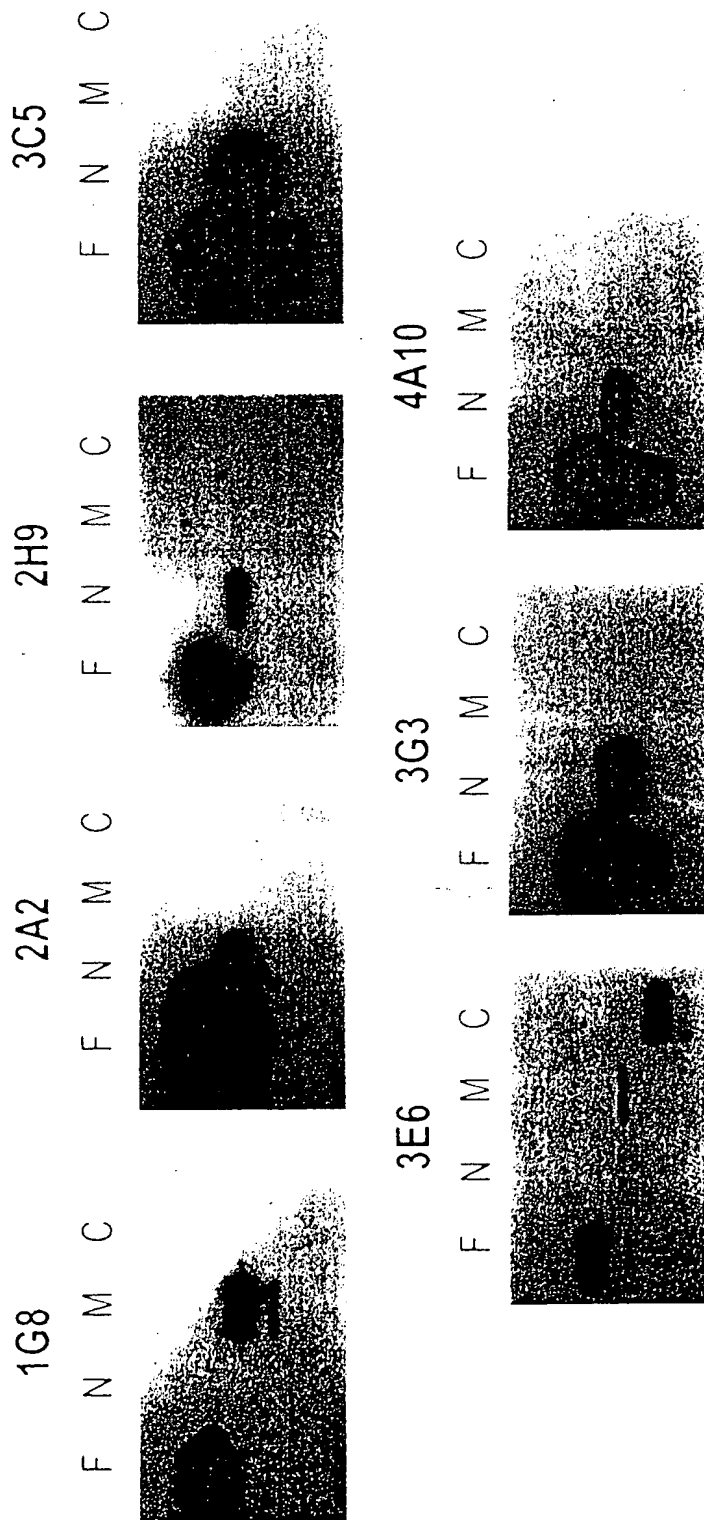
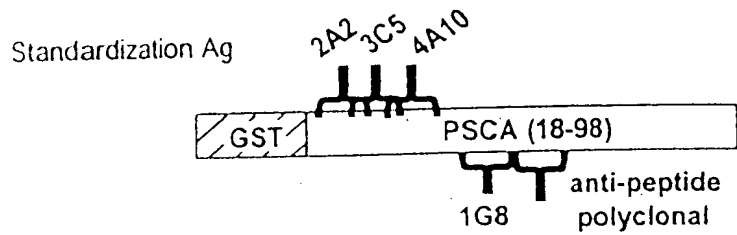
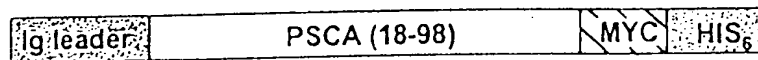


FIG. 50

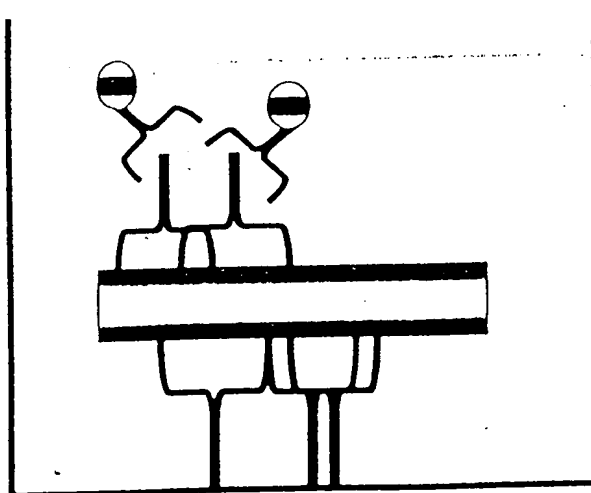
A



Engineered mammalian secreted form



B



Anti-IgG2a HRP

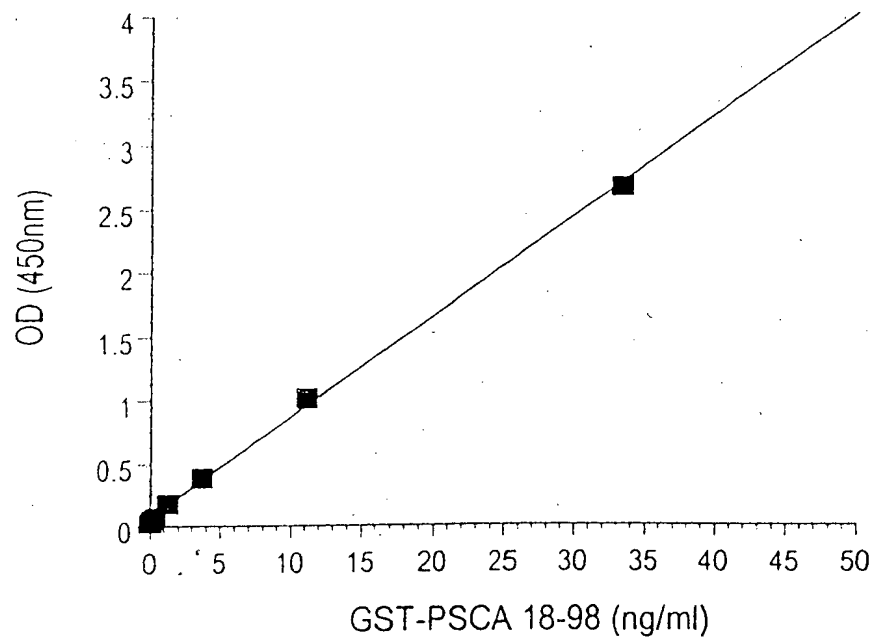
Anti-PSCA mAbs 3C5+4A10+2A2 (IgG2a)

PSCA

Affinity purified anti-peptide polyclonal
+ mAb 1G8 (IgG1)

FIG. 51

A



B

Sample	OD+range (n=2)	ng/ml
vector	0.005+0.001	ND
vector+hu serum	0.004+0.001	ND
secPSCA	2.695+0.031	32.92
secPSCA+hu serum	2.187+0.029	26.55

FIG. 52

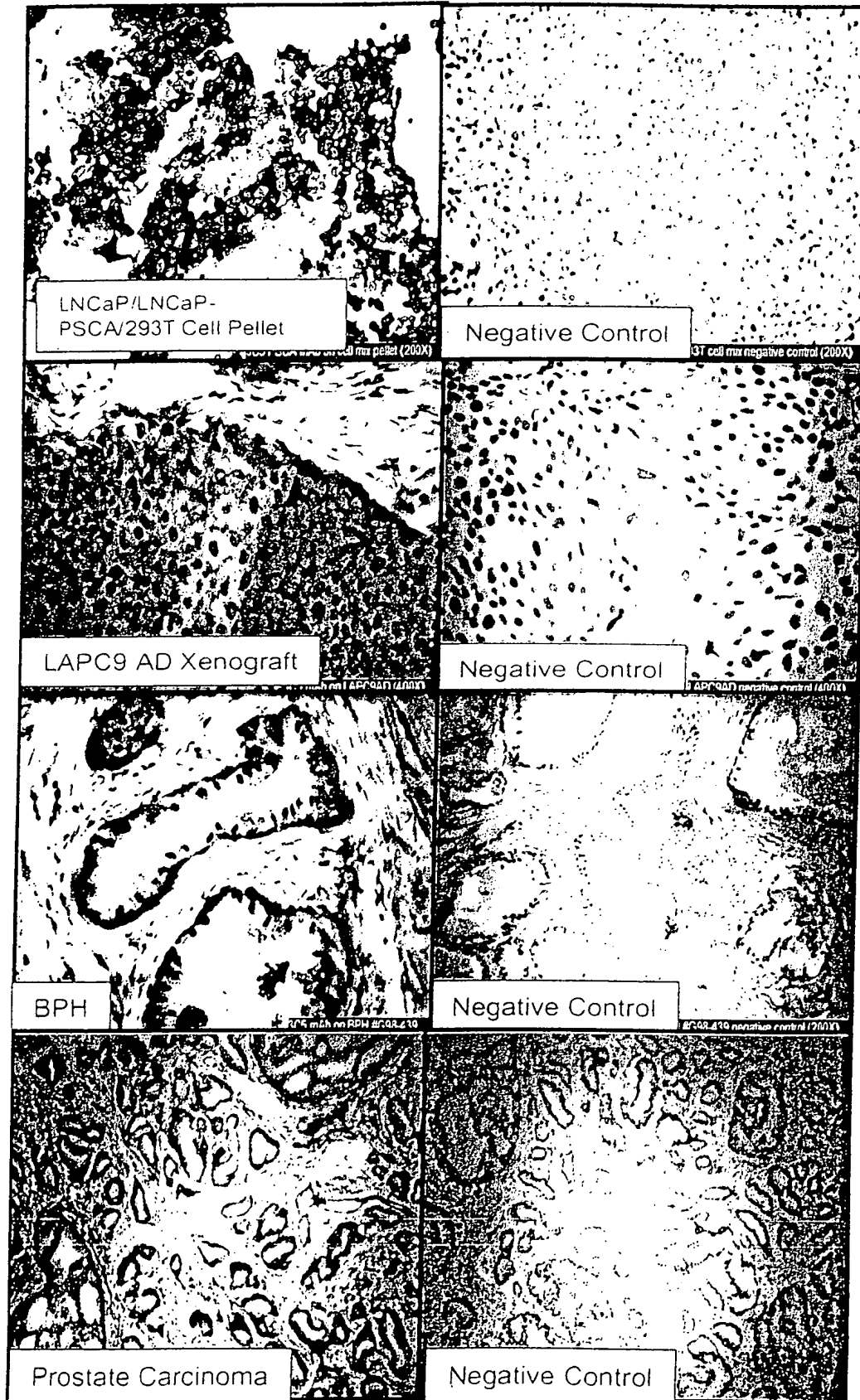


FIG. 53

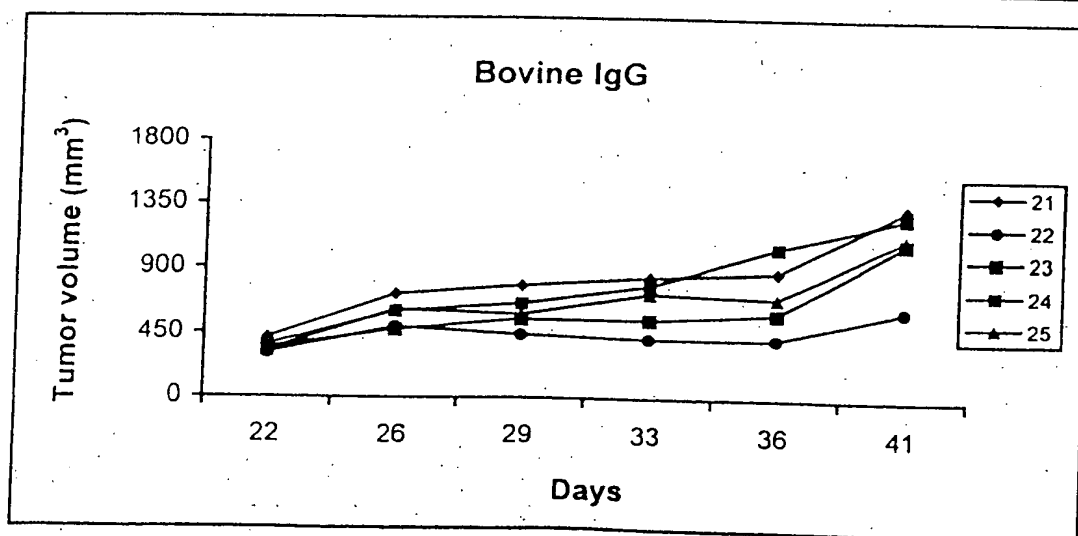
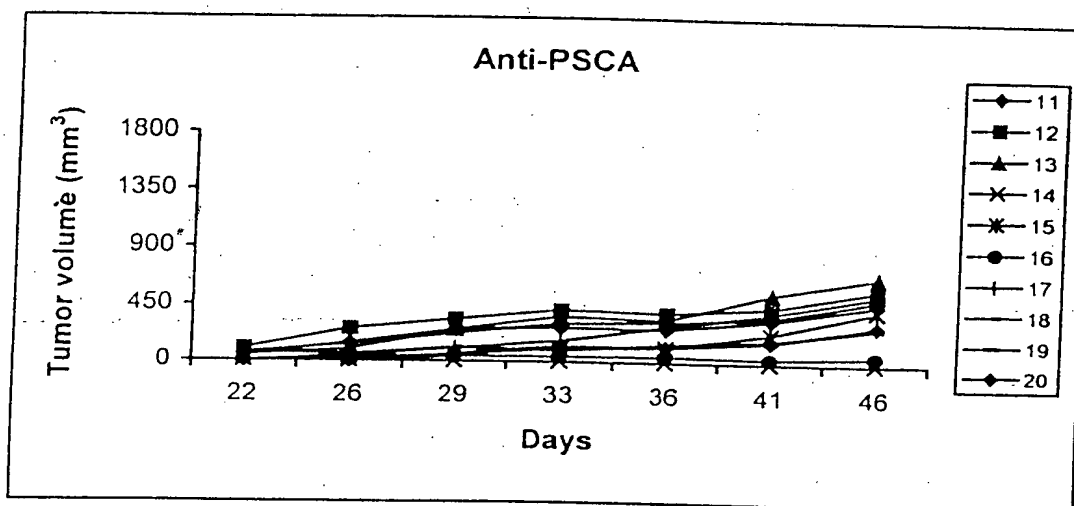
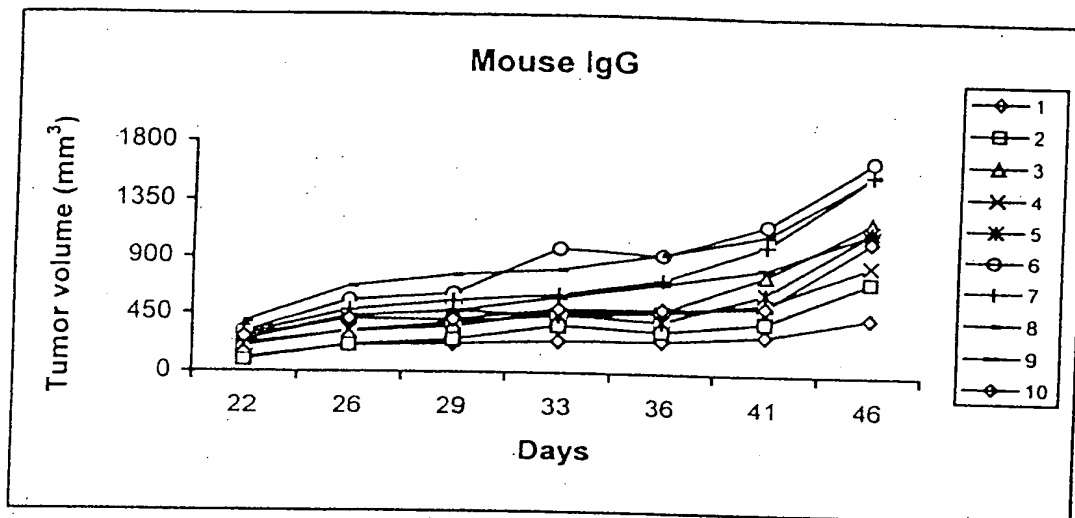


FIG. 54

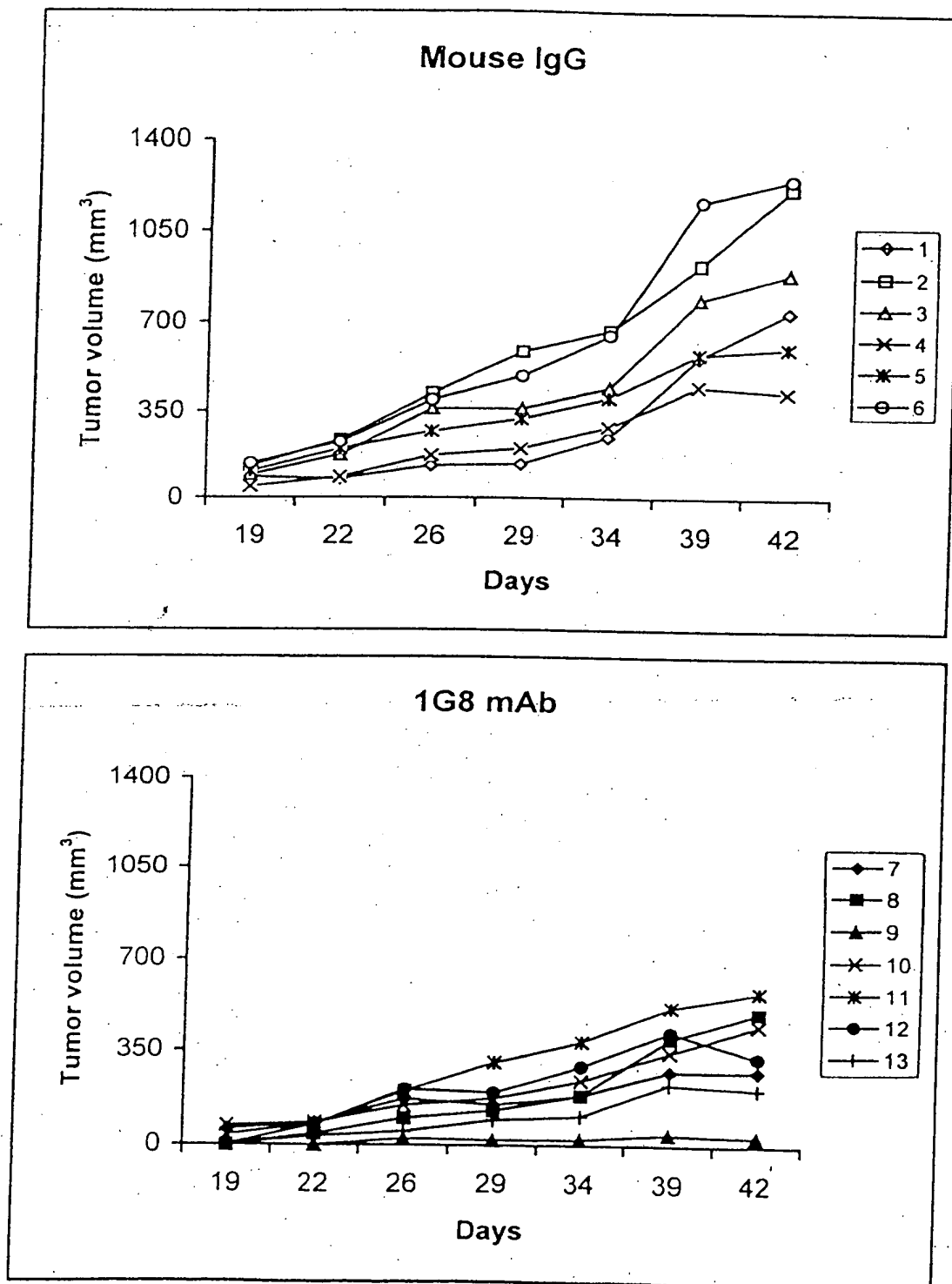


FIG. 55

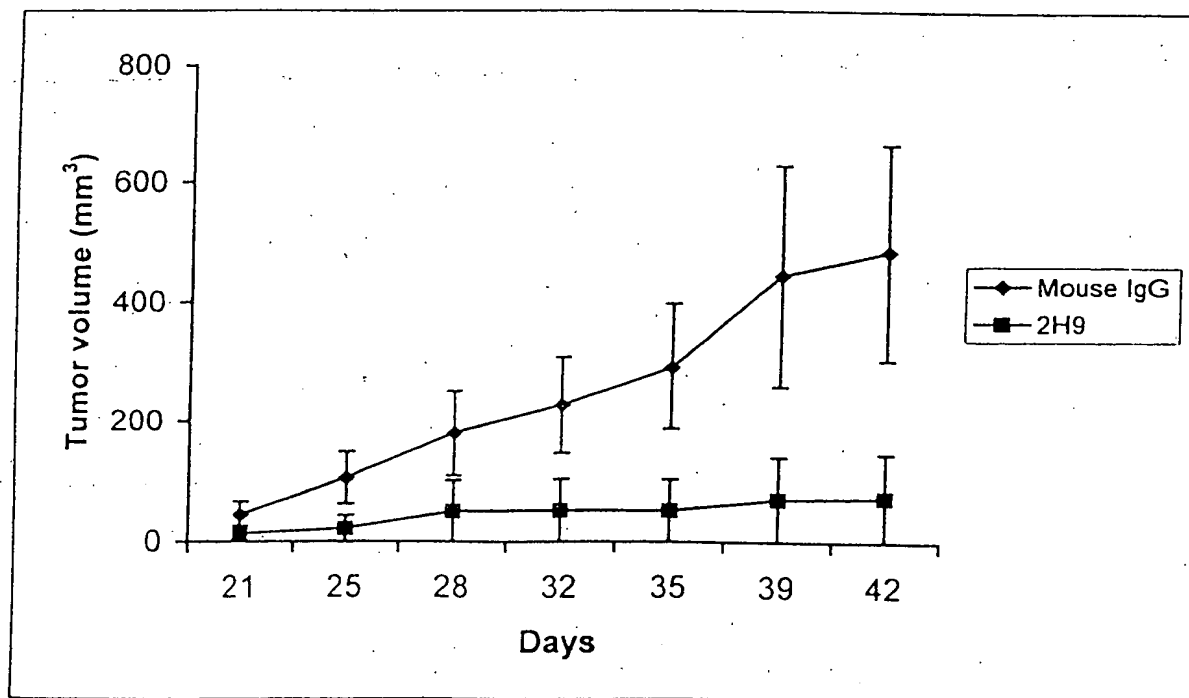
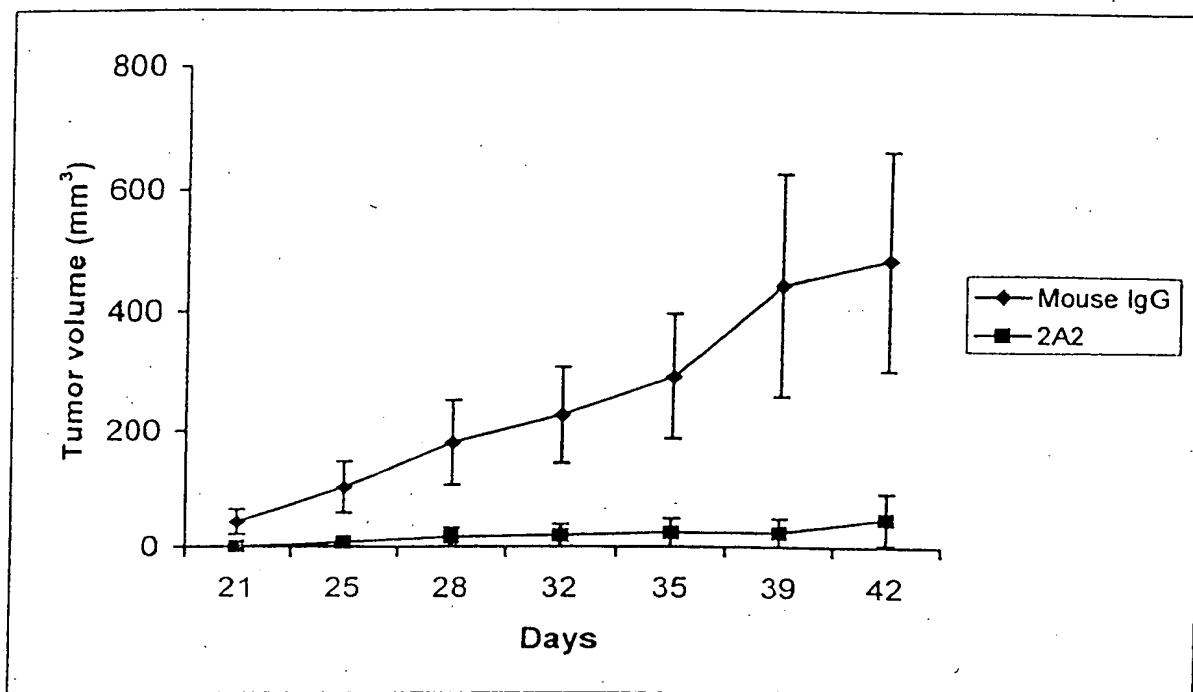


FIG. 56

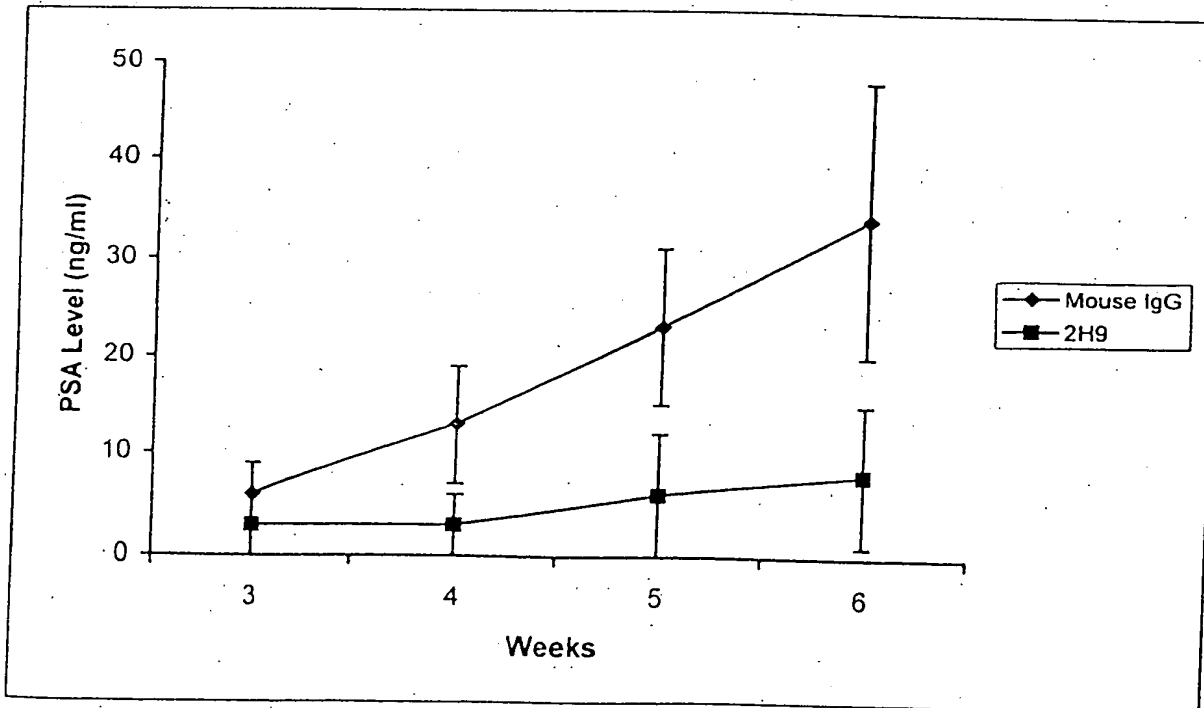
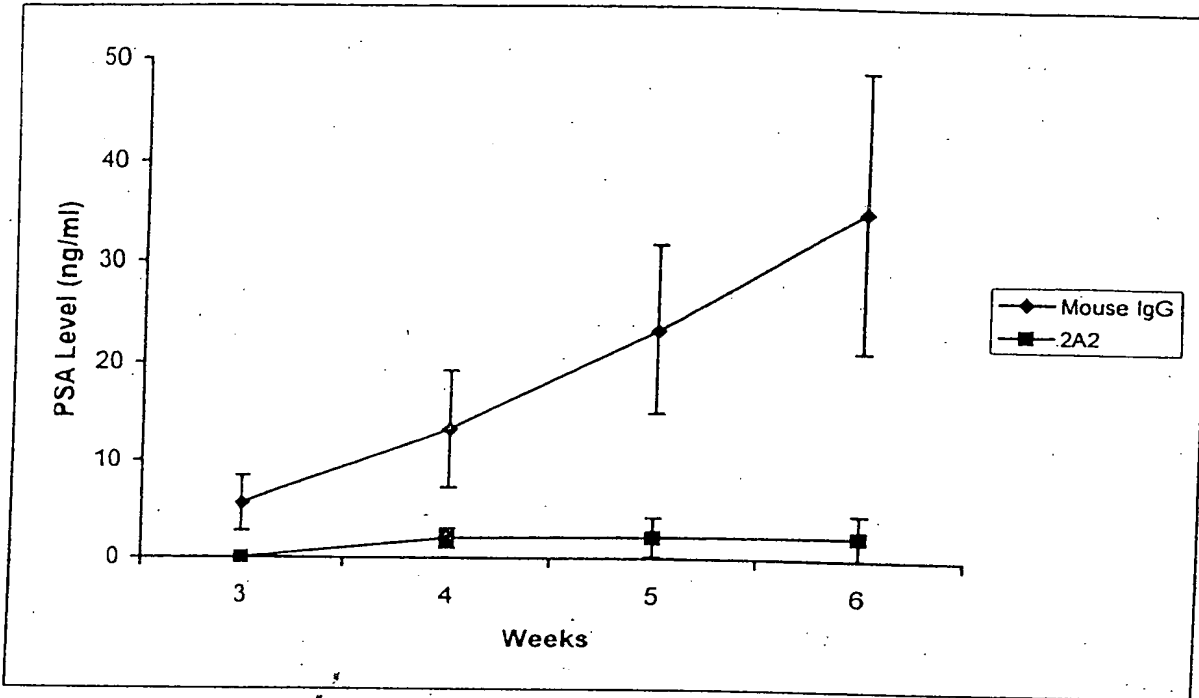


FIG. 57

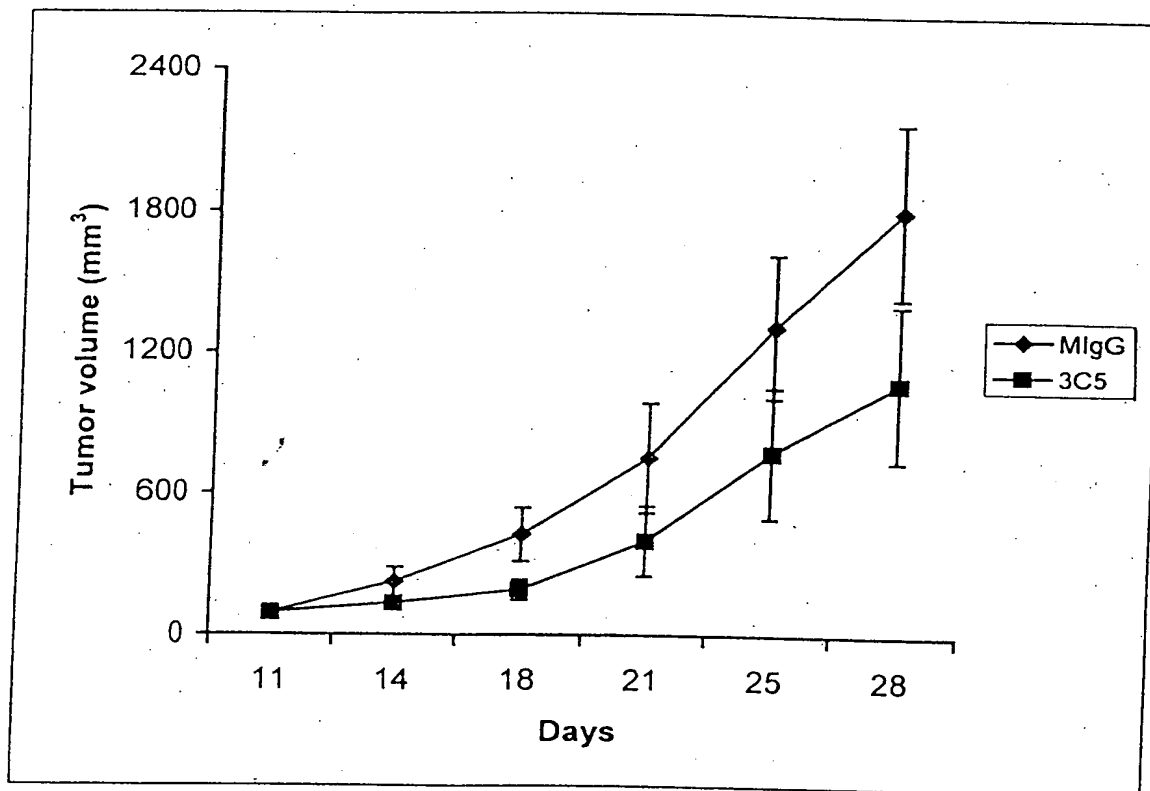


FIG. 58

TGCTTCTTCCTGATGGCAGTGGTTATAGGAGTCAATTACAGAGTTTCAGCTGCAGCAGTCT 60
C F F L M A V V I G V N S E V Q L Q Q S 20

GGGGCAGAACTTGTGAGGTCAGGGGCCCTCAGTCAAGTTGTCTGACAGCTTCTGGCTTC 120
G A E L V R S G A S V K L S C T A S G F 40

CDR1
AACATTAAGACTACTATATACACTGGGTGAATCAGAGGCCCTGACCAGGGCCTGGAGTGG 180
N I K D Y Y I H W V N Q R P D Q G L E W 60

CDR2
ATTGGATGGATTGATCCTGAGAATGGTGACACTGAATTTGTCCCGAAGTTCCAGGGCAAG 240
I G W I D P E N G D T E F V P K F Q G K 80

GCCACTATGACTGCAGACATTTTCTCCAACACAGCCTACCTGCACCTCAGCAGCCTGACA 300
A T M T A D I F S N T A Y L H L S S L T 100

CDR3
TCTGAAGACACTGCCGTCTATTACTGTAAACGGGGGTTTCTGGGGCCAAAGGACTCTG 360
S E D T A V Y Y C K T G G F W G Q G T L 120

GTCACGTCTCTGCAGCCAAACGACACCCCATCTGTCTATCCACTG
V T V S A A K T T P P S V Y P L

FIG. 59

TTGGTAGCAACAGCCCTCAGATGTCCACTCCAGGTCCAACTGCAGCAACCTGGGTCTGAA 60
 L V A T A S D V H S Q V Q L Q Q P G S E 20

CTGGTGAGGCCCTGGAACCTTCAGTGAAGCTGTCTCCTGCAAGGCTTCTGGCTATACATTCTCC 120
 L V R P G T S V K L S C K A S G Y T F S 40
 CDR1

AGCTACTGGATGCACCTGGGTGAAGCAGAGGCCCTGGACAAGGCCTTGAGTGGATTGGAAT 180
 S Y W M H W V K Q R P G Q G L E W I G N 60

ATTGACCCCTGGTAGTGGTTAACTAACTACGCTGAGAACCTCAAGACCAAGGCCACACTG 240
 I D P G S G Y T N Y A E N L K T K A T L 80
 CDR2

ACTGTAGACACATCCTCCAGCACAGCCCTACATGCAGCTCAGCAGCCTGACATCTGAGGAC 300
 T V D T S S S T A Y M Q L S S L T S E D 100

TCTGCAGTCTATTACTGTACAAGCCGATCTACTATGATTACGACGGGATTGTGCTTACTGG 360
 S A V Y Y C T S R S T M I T T G F A Y W 120
 CDR3

GGCCAAGGGACTCTGGTCACTGTCTCTGCAGCTACAACAACAGCCCCCATCTGTCTATCCA 420
 G Q G T L V T V S A A T T T A P S V Y P 160

CTGGCC
 L A

FIG. 60

AATGACTTCGGGTTGAGCTGGGTTTTTATTATTGTTCTTTTAAAGGGTCCGGAGTGAA 60
N D F G L S W V F I I V L L K G V R S E 20

GTGAGGCTTGAGGAGTCTGGAGGAGGCTGGGTGCAACCTGGAGGATCCATGAAGTCTCC 120
V R L E E S G G G W V Q P G G S M K L S 40

TGTGTAGCCTCTGGATTACTTTCAGTAATTACTGGATGACTTGGGTCCGCCAGTCTCCA 180
C V A S G F T F S N Y W M T W V R Q S P 60
CDR1

GAGAAGGGGCTTGAGTGGGTGCTGAAATTCGATTGAGATCTGAAAATTATGCAACACAT 240
E K G L E W V A E I R L R S E N Y A T H 80
CDR2

TATCGGAGTCTGTGAAGGGAATTACCATCTCAAGAGATGATTCAGAAAGTCGTCTC 300
Y A E S V K G K F T I S R D D S R S R L 100

TACCTGCAAAATGAACAACCTTAAGACCTGAAGACAGTGGAATTATTACTGTACAGATGGT 360
Y L Q M N N L R P E D S G I Y Y C T D G 120

CTGGGACGACCTAACTGGGGCCAAAGGACTCTGGTCACTGTCTCTGCAGCCAAACGACA 420
L G R P N W G Q G T L V T V S A A K T T 140
CDR3

CCCCATCTGTCTATCCACTGGCCCCCTTGTGTA
P P S V Y P L A P C V

FIG. 61

CDR1 Comparisons

1G8	1gG _{1k}	Middle	G	F	N	I	K	D	Y	Y	I	H
2H9	1gG _{1k}	N-Term.	G	F	T	F	S	N	Y	W	M	T
4A10	1gG _{2ak}	N-Term.	G	Y	T	F	S	S	Y	W	M	H

CDR2 Comparisons

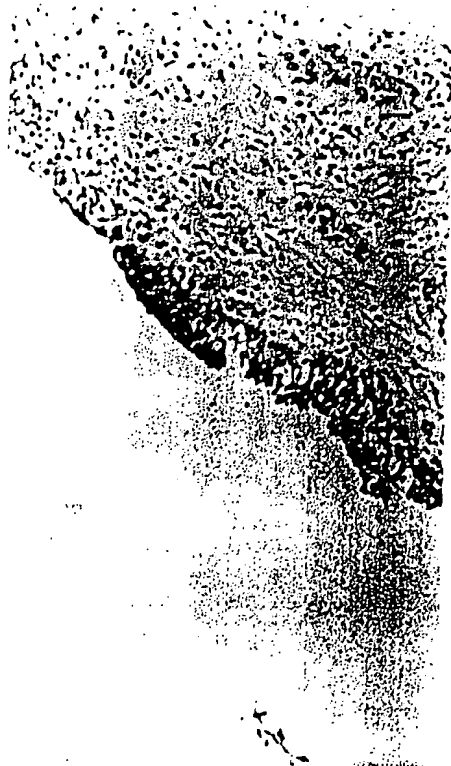
1G8	1gG _{1k}	W	I	D	P	E	N	G	D	T	E	F	V	P	K	F	Q	G		
2H9	1gG _{1k}	E	I	R	L	R	S	E	N	Y	A	T	H	Y	A	E	S	V	K	G
4A10	1gG _{2ak}	N	I	D	P	G	S	G	Y	T	N			Y	A	E	N	L	K	T

CDR3 Comparisons

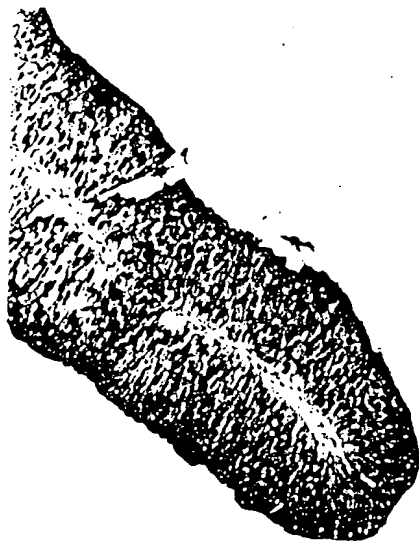
1G8	1gG _{1k}	G	G	F														
2H9	1gG _{1k}	L	G	R	P	N												
4A10	1gG _{2ak}	R	S	T	M	I	T	T	G	F	A	Y						

FIG. 62

A



B



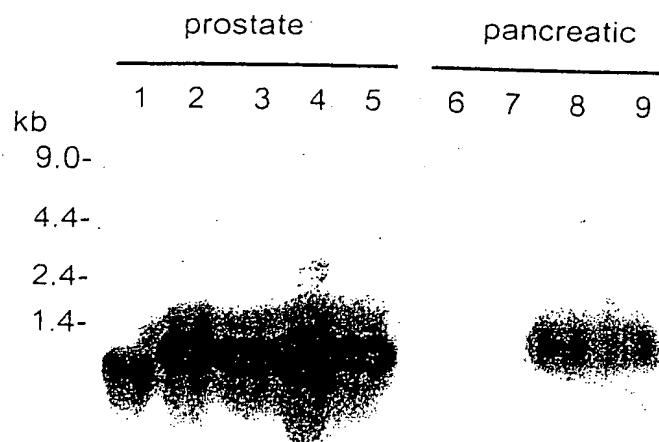
C



D



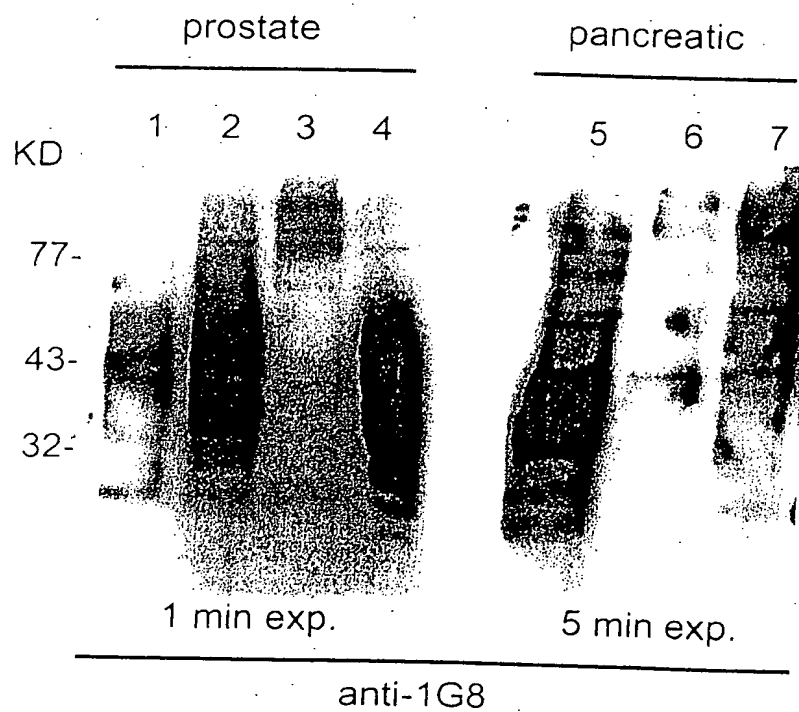
FIG. 63



1. Prostate
2. LAPC-4 AD
3. LAPC-4 AI
4. LAPC-9 AD
5. LAPC-9 AI

6. PANC-1
7. BxPC-3
8. HPAC
9. Capan-1

FIG. 64



1. LAPC-4 AD
2. LAPC-9 AI
3. LNCaP
4. LNCaP-PSCA

5. HPAC
6. Capan-1
7. ASPC-1

FIG. 65

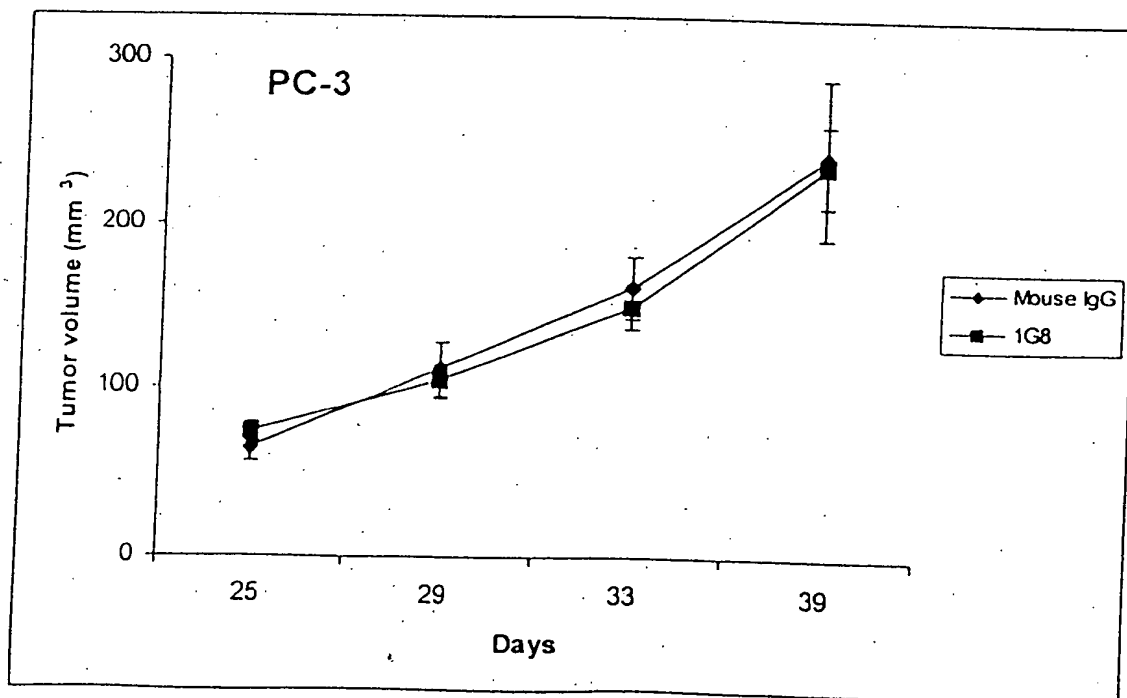
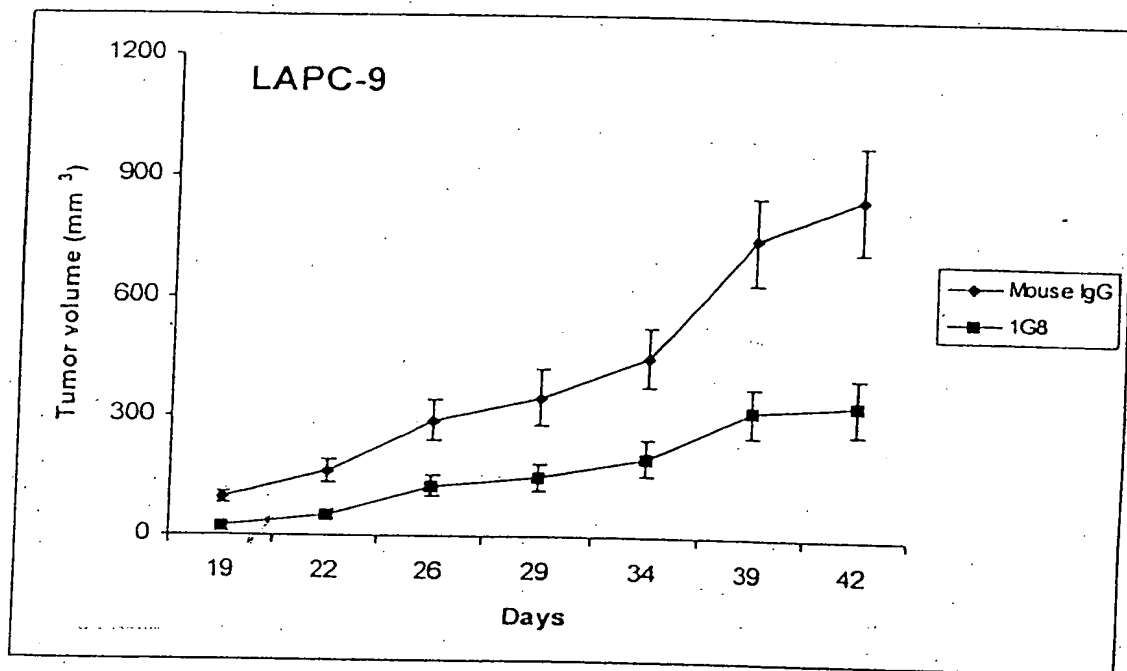
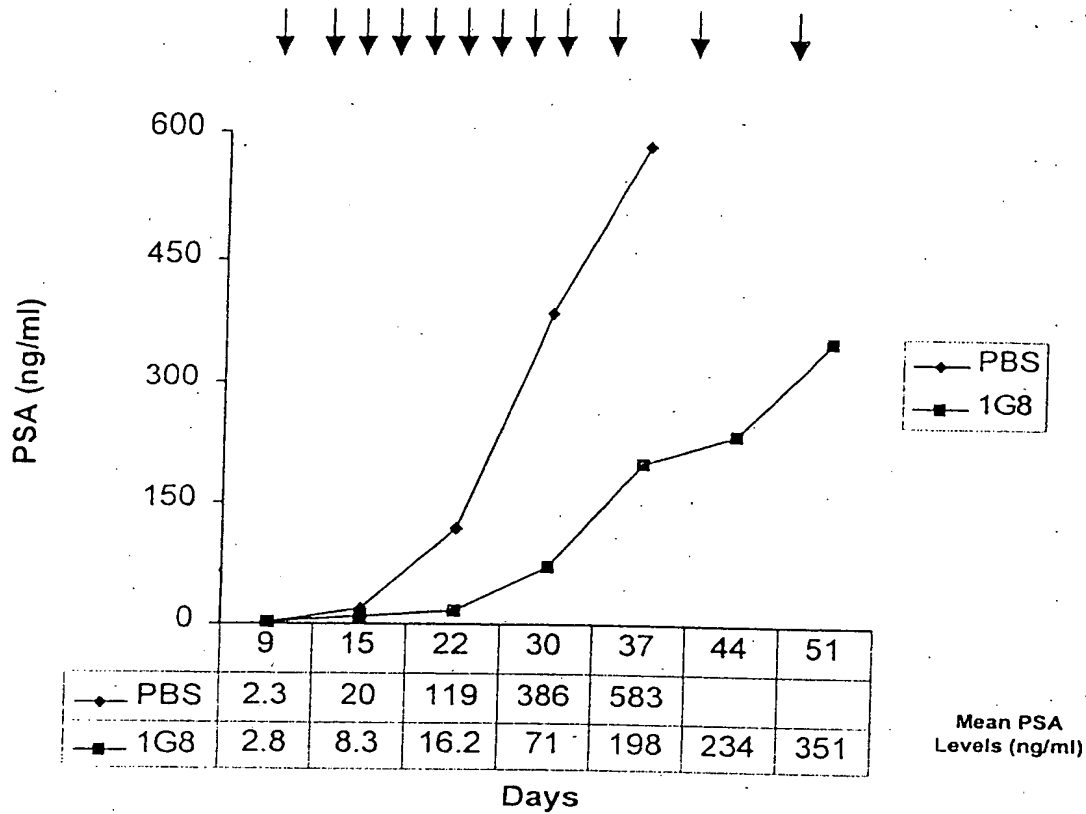


FIG. 66

A)



B)

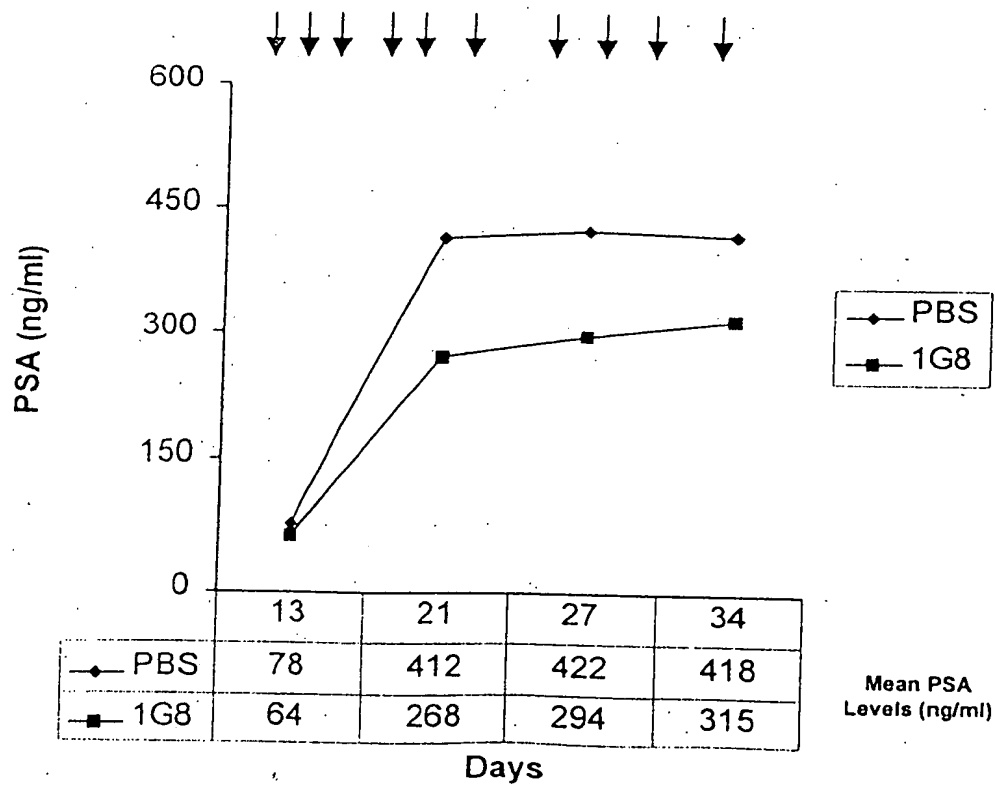
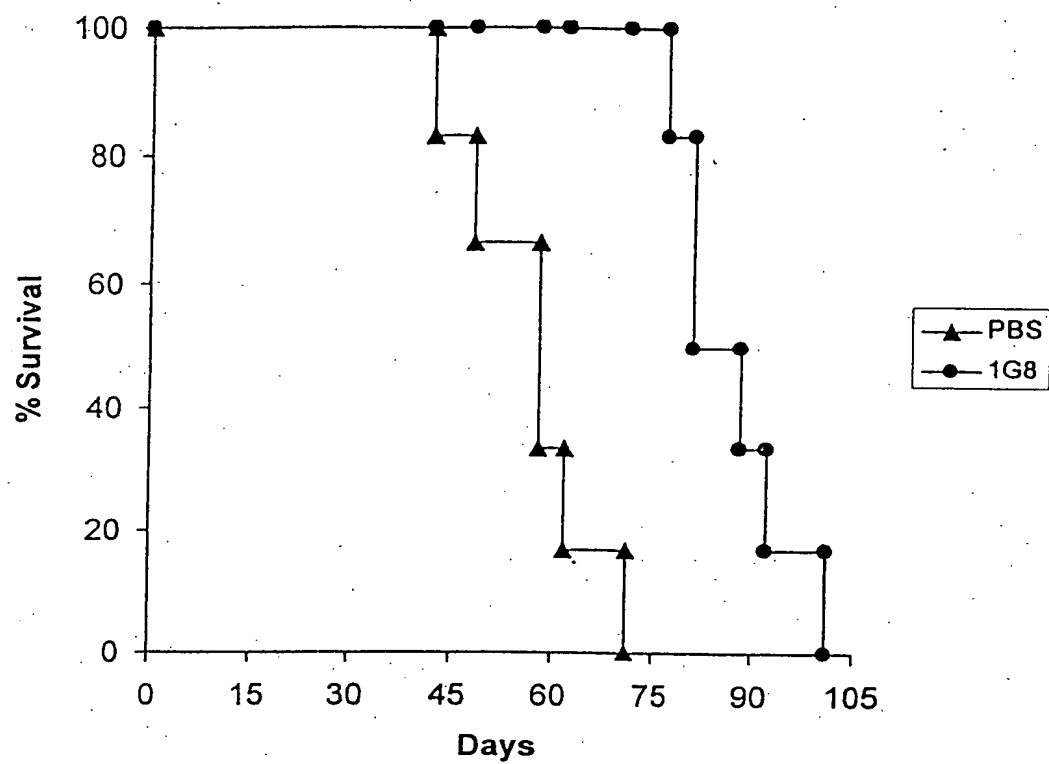


FIG. 67

A)



B)

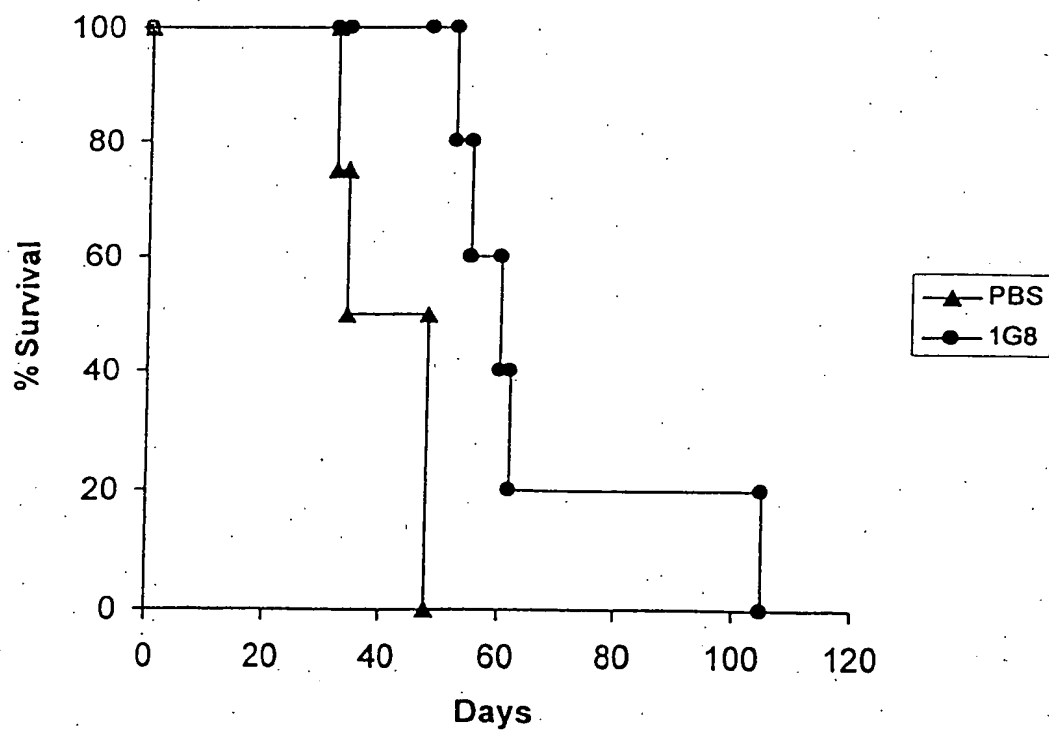
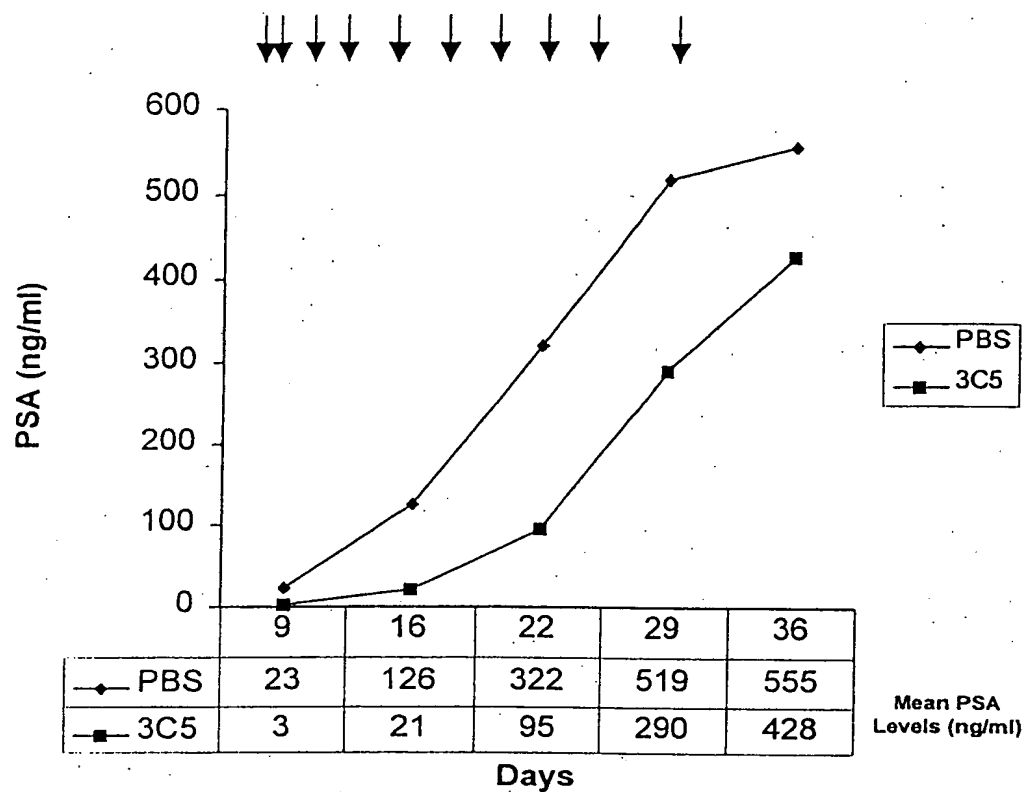


FIG. 68

A)



B)

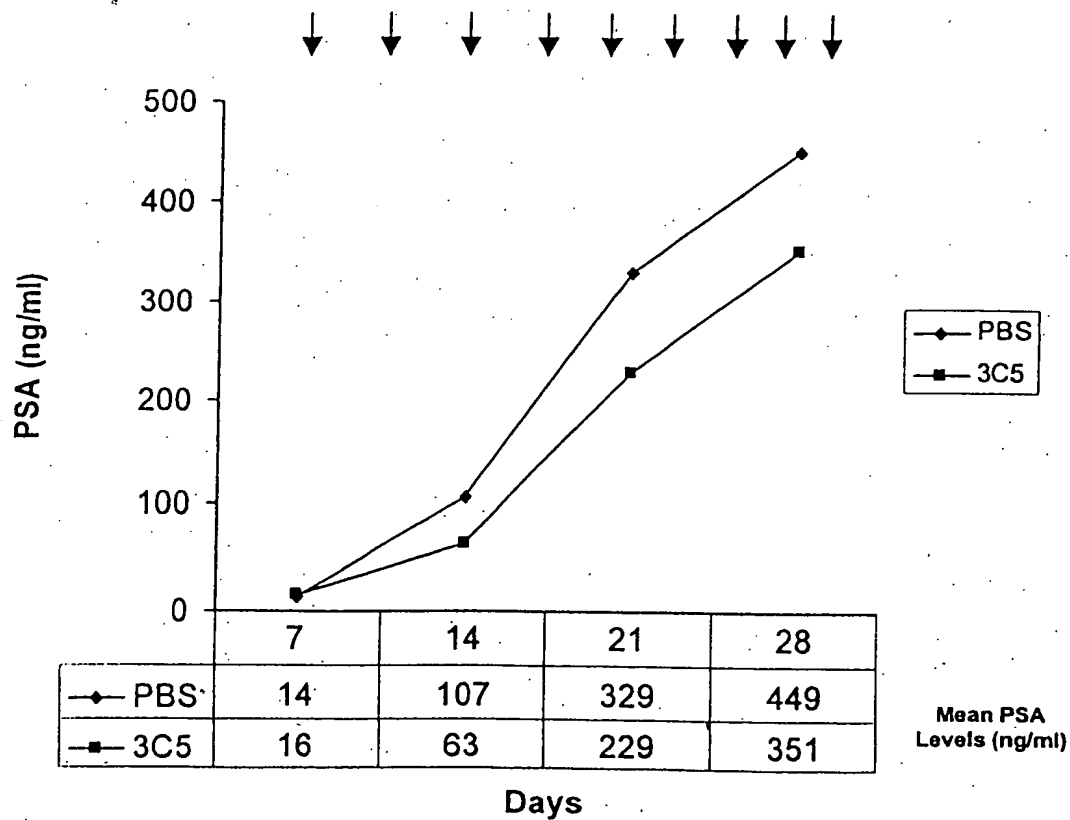
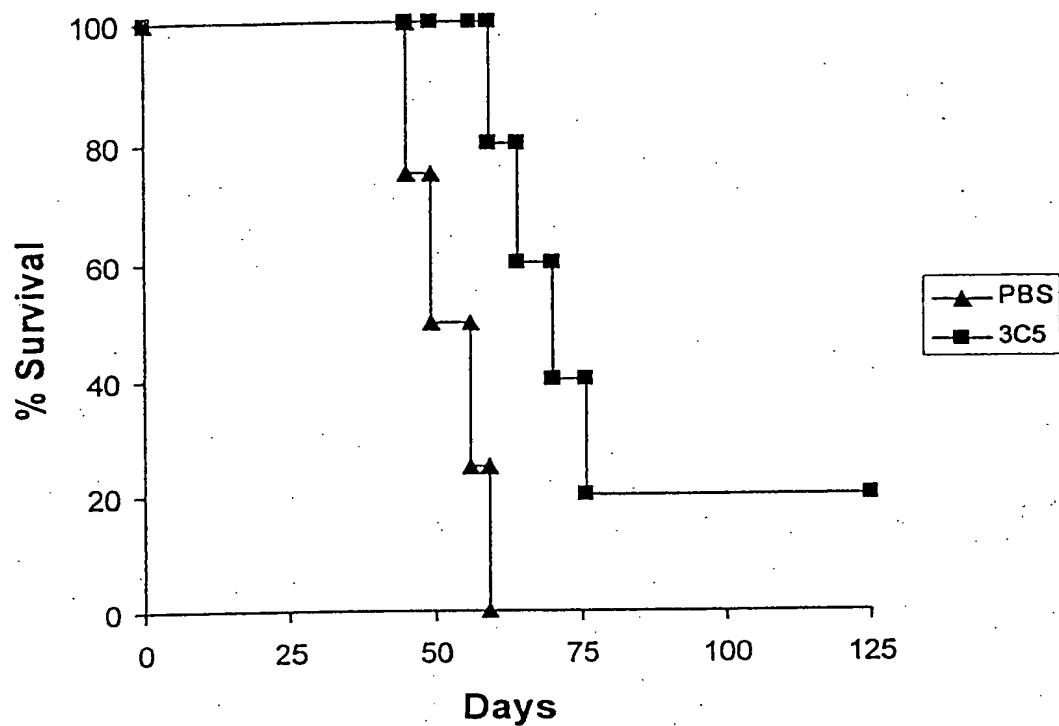
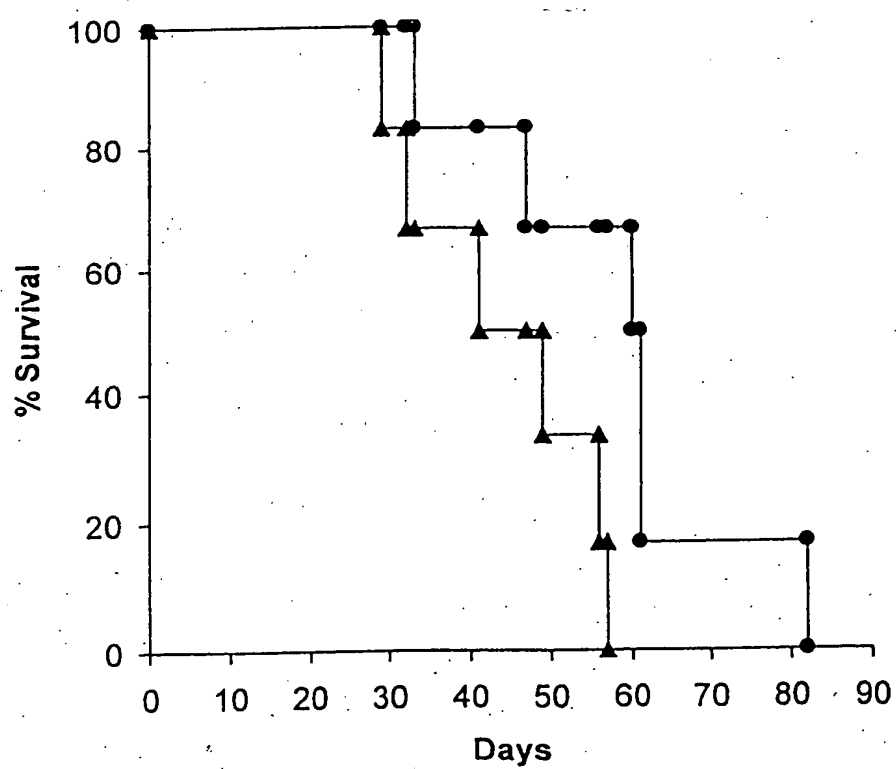


FIG. 69

A)



B)



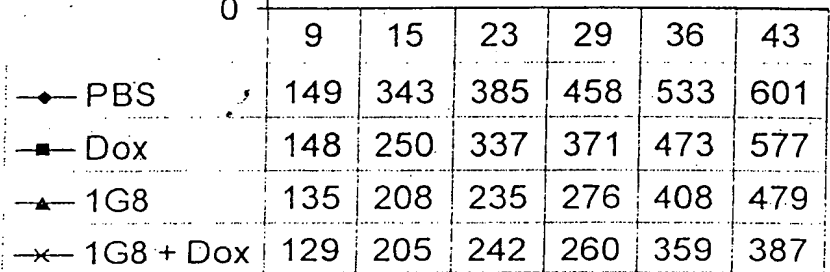
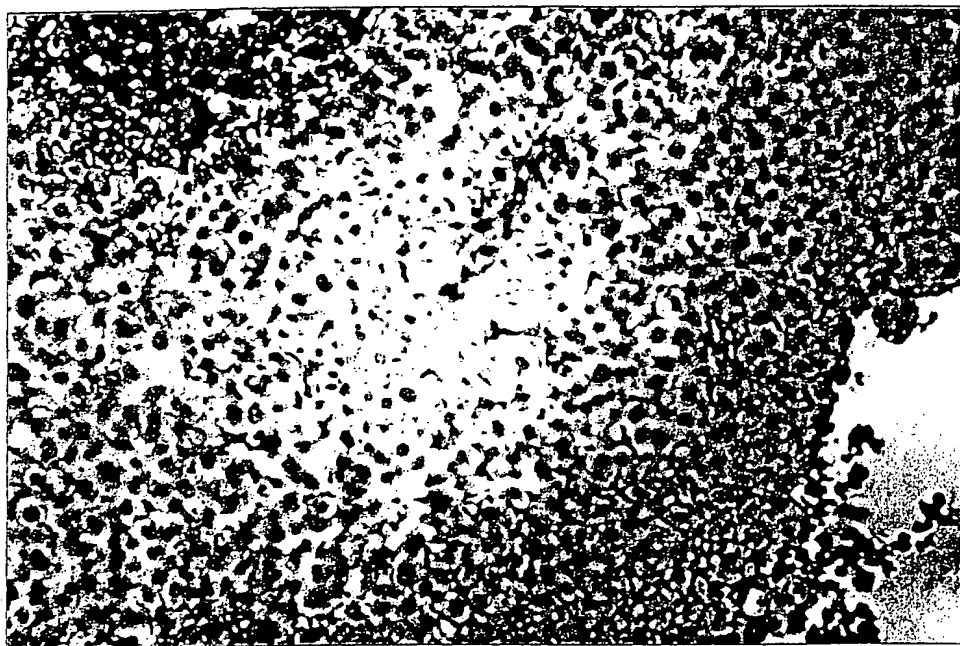


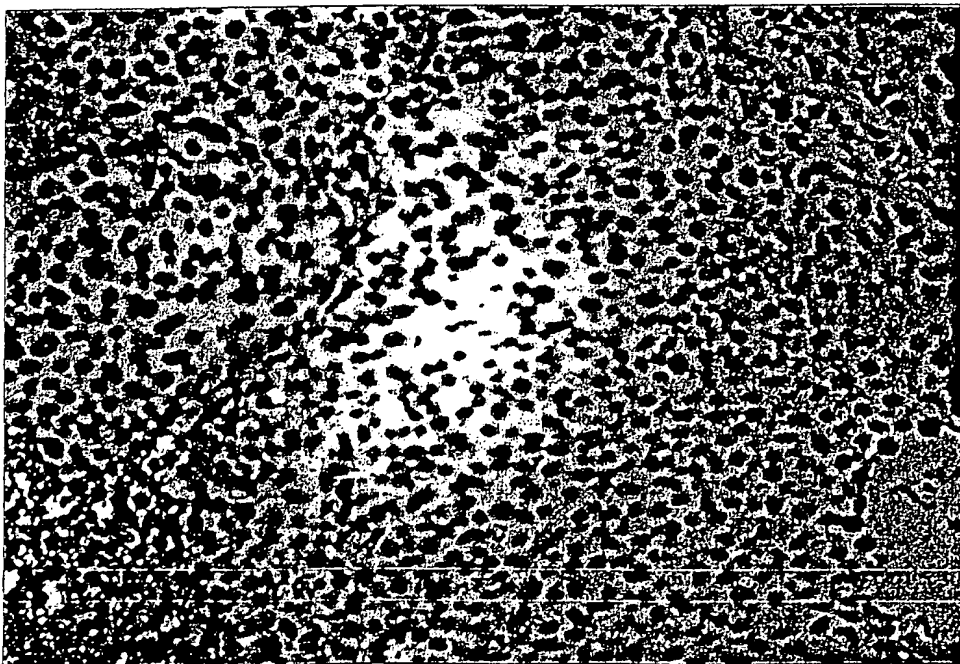
FIG. 71

PSCA 3C5 MAb Localizes within
LAPC9AD Xenograft Tissue

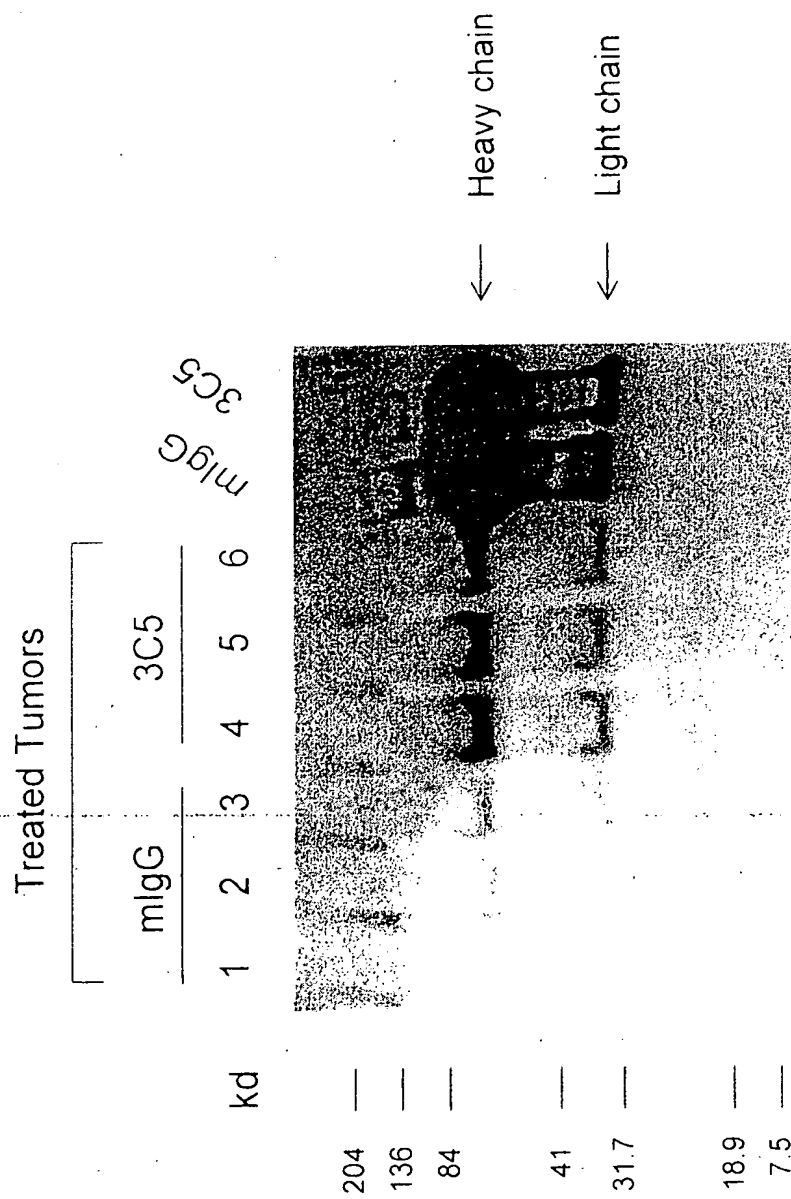
3C5 Treated



mlgG Treated



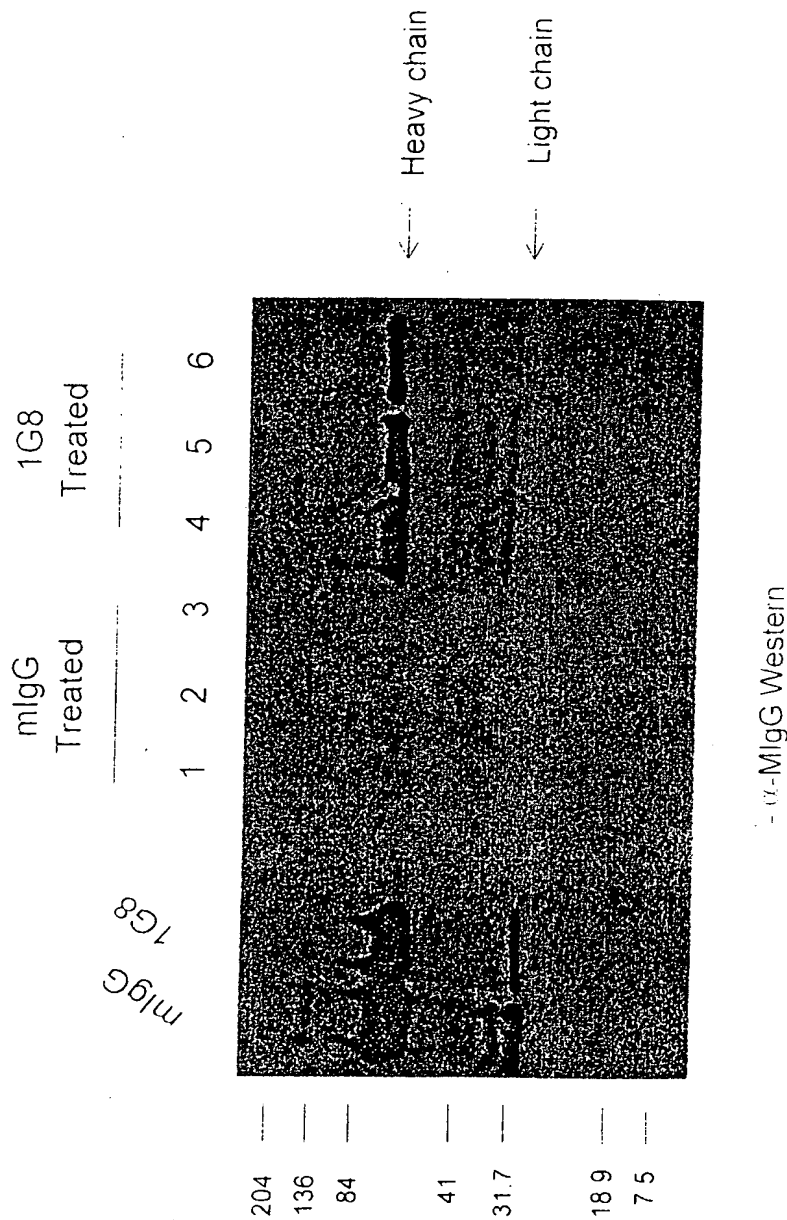
3C5 Anti-PSCA MAb is Localized to Established LAPC-9 Tumors



Western blot developed with α -mlgG/k

FIG. 72

SPECIFIC TARGETING OF THE 1G8 ANTI-PSCA MAb TO ESTABLISHED LAPC-9 TUMORS



Method: Mice bearing established LAPC-9 tumors (>100 mm³) were injected with either mIgG or the anti-PSCA MAb 1G8. Tumors were harvested a week later and made into protein lysates for Western analysis

FIG. 73